

Sprint

RECEIVED

JAN 8 1999

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Pete Sywenki
Director, Federal Regulatory Relations

Law & External Affairs
1850 M Street, NW, Suite 1100
Washington, DC 20036
Voice 202 828 7452
Fax 202 296 3469
pete.n.sywenki@mail.sprint.com

EX PARTE

January 8, 1999

Ms. Magalie Roman Salas
Secretary - Federal Communications Commission
The Portals, 445 Twelfth St., SW
Washington, D.C., 20554

EX PARTE OR LATE FILED

RE: CC Docket Nos. 96-45 and 97-160
FCC CCB Cost Model Input Workshops—Switch Cost Inputs

Dear Ms. Salas,

Today, representatives of the Benchmark Cost Proxy Model (BCPM) joint sponsors met with representatives from the Commission's Common Carrier Bureau with regard to the above referenced proceedings. The BCPM joint sponsors were represented by Joe Page (consultant for INDETEC International), Whit Jordan of BellSouth, Ken Cartmell and Peter Copeland of USWEST, and John Holmes and myself of Sprint. Representing the Bureau were Abdel Eqab, Richard Smith, Craig Brown, Bob Loube, Katy King, Jim Eisner, Jim Zolnierek, and Jeff Prisbrey. Tom Wilson of the Washington PUC and Bill Bollinger of Sprint joined the meeting via phone. The purpose of the meeting was to discuss Switching Cost Inputs for the cost proxy model for universal service. In the meeting, we discussed the submission of the BCPM joint sponsors in response to the Bureau's input workshop on switch cost inputs held December 1, 1998. The attached materials were used to facilitate the discussion.

We request that this information be made a part of the record in this matter. The original and three copies of this notice are being submitted to the Secretary of the FCC in accordance with Section 1.1206(b)(1) for this purpose. If there are any questions, please call.

Sincerely,

Pete Sywenki
Pete Sywenki

No. of Copies rec'd 0+3
List A B C D E

Attachments

cc: C. Brown K. King J. Eisner J. Zolnierek
B. Loube A. Eqab J. Prisbrey R. Smith

Switch Investment Inputs for the HCPM Platform

Prepared by the BCPM Sponsors
BellSouth, INDETEC International, Sprint, and U S WEST

January 8, 1999

RECEIVED

JAN 8 1999

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

EX PARTE OR LATE FILED

Switch Investment Inputs for the HCPM Platform

Development of HAI Switch Investment Inputs

- Possible sources for the switch investment functions
- Recommended 'critical' HCPM/HAI platform switch input changes
- Summary of recommended change effects upon model outputs.
- HAI model flaw which should be corrected for HCPM

Switch Investment Inputs for the HCPM Platform

Alternative Investment Sources Considered

- SCIS and SCM most precise sources of switch investment available
 - Proprietary nature of models an FCC concern
- FCC Study from 12/1/98 workshop based on April, 1998 Gable-Kennedy data from Large LEC Depreciation Filings and RUS data
- Published Reports

Switch Investment Inputs for the HCPM Platform

Alternative Investment Sources Considered

- Data based on simple linear total switch investment functions for host and remote switches
- No differentiation between analog and digital line costs
- No separation of vertical services and feature costs from basic switch investments.
- NRRI data excludes required switch upgrade costs for new software/hardware after initial placement, **not forward-looking**

Switch Investment Inputs for the HCPM Platform

Alternative Investment Sources(continued)

LEC Accounting Records

- Possible alternative to the NRRI data set
- 1997 FCC switch cost survey needs cleanup to a consistent industry format
- Uniform Data Template
- Current LEC Switch Data the best predictor of forward-looking costs

Switch Investment Inputs for the HCPM Platform

Uniform Data Template

Sprint --							
COE/CPR Master Detail Listing							
Sub-Accounts 1210X -- Digital Switching Equipment							
Thru 12/31/97							
CLLI	Orig	Switch	Host (H)	Installed	Equipped	Working	
State Code	Year	Type	Remote (R) Stand alone (S)	Cost	Lines	Lines	

Switch Investment Inputs for the HCPM Platform

Switch Investment Considerations

- Substantial switching infrastructure upgrades over last decade
- Primary drivers have been significant industry changes in the way calls are routed
- Changes mandatory to meet routing/billing standards of the North American Number plan
- Absent upgrades, a Digital Switch purchased today could not meet minimum dialing standard requirements



Switch Investment Considerations(examples)

DMS-100 Switch Upgrade Drivers

Year	Mandate	Switching Cost Impacts
1992	800 Portability &: Line Information Database (LIDB). FCC required post dial delay requirements which in turn drove substantial switch upgrades.	Required SS7 connectivity at access tandem level to meet post dial delay mandates from Docket 86-10. Both projects drove major switch upgrades to provide trunk signaling and basic SS7 query capabilities.
1993	Feature Group B CIC code expansion	Impacted tandem switches. Required upgrade to BCS34; this in turn required additional software.
1995	Interchangeable NPAs implemented due to NANPA code exhausts	Required upgrades to all switches. Tandem offices with Operator service capabilities particularly impacted where table limitations occurred.
1995	Feature Group D CIC code expansion	Impacted all Equal Access capable switches. Drove switches to BCS36 baseline. XPM upgrades to switch peripherals required with software upgrade.
1995	888 Code expansion	Impacted all switches, software upgrades required to handle new SAC queries
1995	GR-303 Generic Next Generation Digital Loop Carrier interface, consistent with forward-looking loop investment requirement specs.	Required new ESMA peripheral hardware and Software RTU per ESMA

Switch Investment Considerations(examples)

DMS-100 Switch Upgrade Drivers

Year	Mandate	Switching Cost Impacts
1996	International Direct Digit Dialing expansion to 15 digits	IDDD Required all switches to be at NA004 and associated software upgrades.
1997	Carrier Identification Parameter (CIP) required to identify second carrier codes handled by primary carrier.	Required upgrade to obtain CIP software, LOC0002.
1997	Intralata Equal Access Implementation	Required upgrade to NA006 and insertion of Two-PIC software, EQA00015.
1997	Local Number Portability implementation order from the 1996 Telecommunications act required LNP implementation by 12-31-98 in the top 100 MSAs.	Required software upgrade to NA008 plus purchase and installation of LNP specific packages, AIN002, AIN0026, AIN0006, AIN0007, AIN0009, and LNP0100.
1998	Flexible ANI implementation mandate required to facilitate a two digit ANI code identifying payphone owners for carrier compensation purposes.	Required software upgrade to NTS00025.

Switch Investment Inputs for the HCPM Platform

HAI Methodology

'Base case' investment costs generated using HAI defaults plus FCC switch curve.

- Used Sprint-Florida data for base case:
 - 91 wire centers ranging from 400 to 55,000 lines
 - Median line size per office of 11557
 - 31 standalone, 22 host, 38 remotes, and 4 tandems in serving area
- Base Case Results:

Switch and MDF Investment per Line	Local Tandem Investment per Line	USF Switch, Transport, Signaling Cost per Line
87.50	2.49	2.25

Switch Investment Inputs for the HCPM Platform

Methodology

Case "FCC"- Investment costs generated using HAI defaults, FCC switch curve/equations

- Based upon RBOC depreciation/RUS data compiled by the FCC and Bureau of Economic Analysis
- Eliminated HAI \$12 input/line for Main Distributing Frame (MDF) investment since the underlying switch data includes MDF investment
- Case "FCC" Results:

Switch and MDF Investment per Line	Local Tandem Investment per Line	USF Switch, Transport, Signaling Cost per Line
96.59	2.49	2.37

Switch Investment Inputs for the HCPM Platform

Cases “FCC 1 and FCC 2”- Investment costs generated using HAI defaults, FCC switch curve, FCC recommended switch equations, and sensitivity analysis of HAI trunking adjustment

- FCC1 based upon same criteria as “FCC” case except use of \$100 per trunk HAI default cost input
- HAI hard-codes line/trunk ratio of 6, at \$100 per trunk, result is \$16.67 per line cost reduction for every switch
- FCC2 upward adjustment of trunk investment to \$200 actually results in decreased switch investment
- Basic switch curve already includes trunk investment, adjustment unnecessary. **Recommend setting trunk investment input to zero**

Switch Investment Inputs for the HCPM Platform

Case “FCC 1” & “FCC 2” sensitivity analysis comparison:

	Switch and MDF Investment per Line	Local Tandem Investment per Line	USF Switch, Transport, Signaling Cost per Line
100 Trunk	96.59	2.49	2.37
200 Trunk	82.47	\$ 3.71	2.16
0 Trunk	110.70	1.26	2.58

Switch Investment Inputs for the HCPM Platform

Methodology

- Results validated using FCC large LEC equations for switch investments by Wire Center for Sprint- Florida
- Resulting average investment of \$102.44 per line using FCC equations
- Resulting average investment of \$112.69 per line including HAI switch installation factor- similar to \$110.70 result

Switch Investment Inputs for the HCPM Platform

Methodology

Case “FCC 3”- Same as “FCC 2”, with correction of input for “Analog Line Circuit Offset for Digital Lines”

- For input to be usable, switch curves should be based on 100% analog lines; unknown analog/digital line mix for HAI & FCC switch curves
- Assuming existing mix, analog line offset is inherent in the curve, making application of this input unnecessary
- **Recommendation: set the Analog Line Circuit Offset for Digital Lines (input 4.1.7) to zero, as specified in the FCC “HIGH” input set**

Switch Investment Inputs for the HCPM Platform

Case "FCC 3" – FCC Preliminary Input Data Set

Switch and MDF Investment per Line	Local Tandem Investment per Line	USF Switch, Transport, Signaling Cost per Line
120.10	1.26	2.96

Switch Investment Inputs for the HCPM Platform

Analysis of the Preliminary Model Methodology

- **Methodological problems skewing accuracy of levels of switch investment:**
 - Functional Form
 - Model Specification
 - Estimation

Switch Investment Inputs for the HCPM Platform

BCPM Sponsors' Recommended Data Set

Switch investments should include all relevant costs, including upgrade investments to support basic service

- **Key distinction between Sponsor's study and preliminary study is inclusion of complete switch investment, not just limited service capability provided at initial installation**
- **Further adjustments recommended starting with the FCC "high" input set, as modified previously:**
 - Switch Investment Data
 - Telco Engineering and Labor Investment
 - Power Investment
 - New Purchase versus Growth Price Levels
 - Switch Port Administrative Fill
 - Tandem Switching Investment

Switch Investment Inputs for the HCPM Platform

Switch Investment Data

- Actual total company data from Sprint of Nevada used
- Additional data from other states/LECs should provide more comprehensive statistical function to replace this model
- A further enhancement may be to segment switch investment functions by four switch size ranges allowed in the HCPM.

Switch Investment Functions		
	Fixed	Per Line
Standalone	\$2,533,487.49	\$100.00
Host	\$3,365,397.13	\$100.00
Remote	\$100,900.85	\$100.00

Switch Investment Inputs for the HCPM Platform

Telco Engineering and Labor Investment

- Switch investment data includes costs for Telco E, F, & I
- **Recommend setting the Switch Installation Multiplier (input 4.1.8) to zero**

Power Investment

- Power investment is included in the recommended switch data
- **Recommend setting five Power Investment inputs (4.2.3) to zero in conjunction with recommended data set**

Switch Investment Inputs for the HCPM Platform

New Purchase vs. Growth Price Levels

- Industry Switch Vendor practice to offer substantially lower per-line price levels for initial switch placements versus upgrade/growth additions
- 1998 California PUC rulemaking addressed appropriate TELRIC cost study methods for setting UNE prices:
- NBI study analysis completed by Drs. Tim Tardiff and Gregory Duncan of NERA states*:
 - *“The add-on market provides significant revenue potential for switch suppliers, particularly as the margins on new switches remain below the margins for the add-on market. A digital line shipped and in place will generate hundreds of dollars in add-on and hardware revenue during the life of the switch. Suppliers can afford to lose a few dollars on the initial (new) line sale in exchange for the increased revenue in the after-market, where prices are less likely to be set by competitive bidding.”*

Switch Investment Inputs for the HCPM Platform

Switch Port Administrative Fill

- BCPM Sponsors have adequate evidence to support a port fill factor of 80%
- U S WEST and BellSouth company-wide average fills (or utilization) in the range of 76% for analog and digital lines
- Sprint has an average fill of about 80% for set of Nevada switches used for the study
- **Recommended use of 80% administrative fill as a conservative number by real world standards**
- **Serious flaw found in HAI model that needs to be corrected for HCPM. HAI does not appear to apply line fill factors to standalone switches.**

Switch Investment Inputs for the HCPM Platform

Tandem Switching Investment

- HAI default Tandem Equipment Common Investment of \$1,000,000 has no apparent support
- Previous adjustment setting the trunk investment to zero understates the local tandem investment per line
- Current SCIS DMS-200 common equipment (getting started) costs alone provided by a BCPM sponsor for a tandem switch is \$1,014,379 (discounted)
- **Recommendation: Assuming 10,000 trunks per tandem at \$203.88 discounted, total investment per tandem should be \$3,053,200**

Switch Investment Inputs for the HCPM Platform

Tandem Switching Investment(continued)

- “Tandem Common Equipment Intercept Factor,” also needs to be changed; HAI Model Inputs Portfolio describes as:
“The multiplier of the common equipment investment input that gives the common equipment cost for the smallest tandem switch, allowing scaling of the tandem switching investment according to trunk requirements”
- Little correlation found between the HAI tandem switch investment formulas and the actual calculation

Switch Investment Inputs for the HCPM Platform

- **HAI Model Tandem Common Equipment Calculation process:**

1. Computes total tandem switch common investment based on number of tandem switches apparently compiled from NECA input data
2. Subtracts investment **not** used for *local* tandem switching from total tandem switch common investment.
3. Default input of 0.50 used to adjust the non-local tandem switch investment *downward* for no apparent reason

- **Recommendation: Set Tandem Equipment Common Intercept Factor (input 4.6.6) to zero; results in a local tandem investment lower than with the default value**

Switch Investment Inputs for the HCPM Platform

Tandem Switching Investment(continued)

- Maximum Trunk Occupancy should also be set to 18.3 CCS, versus the 27.5 CCS HAI default, consistent with real-world experience
- This adjustment not included in the Sponsors' study due to time constraints

Switch Investment Inputs for the HCPM Platform

HAI model run completed using Sprint-Nevada data with suggested input changes produced the following results:

Switch and MDF Investment per Line	Local Tandem Investment per Line	USF Switch, Transport, Signaling Cost per Line
\$ 159.57	\$ 0.79	\$ 3.88

Switch Investment Inputs for the HCPM Platform

Summary

- FCC input values are based on publicly available data, and with modifications, can produce more reasonable results than the default HAI Model switch curves
- Joint sponsor modifications to the trunk investment and MDF/protector investment, bring the input set and the HAI model's application of trunk investment into alignment
- Default unsupported HAI switch investment functions should not be used
- Use of a new switch investment model, via the data template provided, is recommended. The Sprint-Nevada study provides sound methods for converting LEC data into a switch investment function

Switch Investment Inputs for the HCPM Platform

Summary

The following inputs should be changed at a minimum:

- The model should use actual host/remote assignments and be populated with LERG data for those assignments.
- HAI default switch equations for standalones, hosts, and remotes should be replaced by equations based on actual LEC purchase data adjusted to a forward-looking basis.
- For the permanent switch investment function, we recommend the Commission create a new model using data obtained from the LECs in the Uniform Data Template format. The Sprint Nevada analysis can be used as a template for the study.
- Switch price levels should be set to reflect real-world conditions, not an impossible hypothetical situation in which an entire network is purchased at once.

Switch Investment Inputs for the HCPM Platform

Summary

- Set the Trunk Port Investment, per end (input 4.5.4) to zero
- Set the MDF/Protector Investment per Line (input 4.1.6) to zero
- Set the Analog Line Circuit Offset for Digital Lines (input 4.1.7) to zero
- Change the Tandem Equipment Common Investment to \$3,053,820 including trunks
- Set the Tandem Equipment Common Intercept Factor (input 4.6.6) to zero
- Set Switch Port Administrative Fill (input 4.1.4) to 80%
- Set the Switch Installation Multiplier (input 4.1.8) to zero
- Set the five Power Investment inputs (4.2.3) to zero
- Correct HAI model platform calculation to allow application of the switch line fill factor to standalone switches

Switch Investment Inputs for the HCPM Platform

SUMMARY OF SCENARIO RUNS				
Scenario	Switch + MDF per Line	Local Tandem Inv per Line	USF Switch, Transport, Signaling per Line	Scenario Information
BASE CASE	\$ 87.50	\$ 2.49	\$ 2.25	All default HAI inputs using H/R assignment.
FCC	\$ 96.59	\$ 2.49	\$ 2.37	Default HAI inputs, H/R assignment, \$0 MDF, FCC switch equations.
FCC 1	\$ 82.47	\$ 3.71	\$ 2.16	Default HAI inputs except for \$200/trunk, H/R assignment, \$0 MDF, FCC switch equations.
FCC 2	\$ 110.70	\$ 1.26	\$ 2.58	Default HAI inputs except for \$0/trunk, H/R assignment, \$0 MDF, FCC switch equations.
FCC 3	\$ 120.10	\$ 1.26	\$ 2.96	FCC recommended inputs except for \$0/trunk, \$0 MDF, \$0 analog line offset.
BCPM Sponsors	\$ 159.57	\$ 0.79	\$ 3.88	BCPM Sponsors' illustrative input set (80% fill). Sprint - NEVADA.

Note: All of the above scenarios understate switch investment because the HAI model does not apply the line fill factor to standalone switches.

RECEIVED

JAN 8 1999

Line Fill - Analog and Digital

FEDERAL COMMUNICATIONS COMMISSION
 Grand Total for U S West Section: 21,216,526 WKG 16,533,427

FILL FACTOR
 0.78

This is total U S WEST data based on the data from the SWITCH data base as of 11/30/98. It shows the actual fill for analog lines (i.e., copper pairs terminated on the switch) and for digital lines (i.e., integrated digital lines served by TR-008 and TR-303 remote digital terminals). The WKG lines are actual in service lines and the INSTLD lines are the total installed lines on the switch. Regarding the Universal Service dockets (i.e., Docket Numbers 96-45 and 97-160), this data may be used in filing comments with the FCC to refute the "Switch Port Administrative Fill" default input in the Hatfield Model (HAI Model 5.0a). All end offices with working lines are included in this worksheet.

Integrated Digital Lines Definitions:

Installed Lines are the total line capacity of the RDT itself - even if the cards have not been installed yet.

Working Lines are those actually in service.

Note: Enough DS1s need to be initially installed in the switch to meet the demand needs of the installed line capacity of the RDT.

CLLI	SW_TYP_NM	PROVG_TYP_NM	INSTLD	WKG	FILL FACTOR
OFFICES WITH WORKING ANALOG LINES:					
BLLVWAGLRS1	RSC	ANALOG LINES	539		1
BLLVWASHRS0	ORM	ANALOG LINES	51		1
DNVRCOCLDS0	DMS100	ANALOG LINES	65,001		1
OLYMWA02RS0	RSC	ANALOG LINES	531		1
OMAHNEIZRSA	ORM	ANALOG LINES	64		1
PHNXAZNWDS0	5E	ANALOG LINES	48,818		1
PLMOMNACRSA	ORM	ANALOG LINES	1		1
STTLWA03RS1	ORM	ANALOG LINES	1		1
STTLWADURS0	ORM	ANALOG LINES	1		1
STTLWAWERS0	ORM	ANALOG LINES	1		1
CNBLIAWARSA	ORM	ANALOG LINES	64		2
ESPKCOMADS0	DMS10	ANALOG LINES	11,520		2
OLYMWA02DS1	DMS100	ANALOG LINES	1,024		4
CLSPCOMADS2	AXE	ANALOG LINES	128		6
ENWDCOABRS1	ORM	ANALOG LINES	1,024		7
STTLWA03RS0	RSC	ANALOG LINES	1,171		7
BLNGMTMADS0	AXE	ANALOG LINES	128		9
BGCYUTMACG0	GENERIC	ANALOG LINES	12,288		10
STTLWA03DS0	5E	ANALOG LINES	74,039		10
TEMACOMARS1	ORM	ANALOG LINES	242		11
HLNAMTMADS1	AXE	ANALOG LINES	128		13
PTLDOROWRS0	ORM	ANALOG LINES	69		17
IDFLIDMADS0	AXE	ANALOG LINES	1,403		19
SEQMWA01DS0	DMS10	ANALOG LINES	12,800		21
STTLWA06CG0	1A	ANALOG LINES	36,897		26
OMAHNE90RSA	ORM	ANALOG LINES	768		30
OMAHNENW03T	5E	ANALOG LINES	768		30
MRRYUTMARS1	ORM	ANALOG LINES	32		32
PCTLIDMADS0	AXE	ANALOG LINES	1,408		32
TWFLIDMADS1	AXE	ANALOG LINES	640		35
DESMIADT2CD	DMS100	ANALOG LINES	400		37
BOISIDMADS1	AXE	ANALOG LINES	768		48
MDFDOR33RS1	RSC	ANALOG LINES	101		48
BOISIDWERS2	RSC	ANALOG LINES	176		56
MPWDMNMADS1	DMS100	ANALOG LINES	106		72
MPLSMNFRRS1	ORM	ANALOG LINES	511		82
MPLSMNFRRSA	GENERIC	ANALOG LINES	511		82
KRNSUTMADS0	5E	ANALOG LINES	768		91

TRRYMTMARS1	AXRSS	ANALOG LINES	640	93
CLSPCOMADS1	DMS100	ANALOG LINES	588	102
BRCTMNBCRS0	ORM	ANALOG LINES	156	112
ATLNNENWRS1	RSC	ANALOG LINES	191	122
OMAHNENWDS2	DMS100	ANALOG LINES	239	123
STTLWA06DS8	5E	ANALOG LINES	256	124
DNVRCOSORS1	ORM	ANALOG LINES	384	135
FDWYWA10RS0	RSM	ANALOG LINES	2,688	135
MVNPCOMARS1	RSC	ANALOG LINES	640	150
HNVLUTNMRS0	RSC	ANALOG LINES	256	166
ALBQNMADS1	DMS100	ANALOG LINES	640	167
NGLNCOMARS1	RSM	ANALOG LINES	224	178
FRWLNENWRS1	RSC	ANALOG LINES	637	180
IDFLDMADS1	DMS100	ANALOG LINES	3,203	184
PTLDOR08RS0	RSC	ANALOG LINES	595	190
DNVRCOWSCG0	1A	ANALOG LINES	49,152	216
WRSPMTMARS1	AXRSS	ANALOG LINES	384	223
THTCIDMARS1	AXRSS	ANALOG LINES	2,048	226
CKCYMTMARS1	AXRSS	ANALOG LINES	384	235
ALXNNDBCRS1	GENERIC	ANALOG LINES	352	245
PTLDOR18RS0	RSC	ANALOG LINES	373	246
RSHLIACORS6	DMS10_REMOTE	ANALOG LINES	1,024	246
LSVLSDCORS1	AXRSS	ANALOG LINES	384	271
DNVRCOSERS1	RSM	ANALOG LINES	512	281
DTTNMTMARS1	RSM	ANALOG LINES	512	283
FKLNIDMARS1	AXRSS	ANALOG LINES	896	283
BRBGIACORS3	AXRSS	ANALOG LINES	384	284
HLRSCOMARS1	AXRSS	ANALOG LINES	2,048	285
CAVRSDCORS1	AXRSS	ANALOG LINES	384	291
STPLMNMKDS1	DMS100	ANALOG LINES	1,664	299
MONAUTMARS1	DMS10_REMOTE	ANALOG LINES	544	306
EAGNMNLBRSA	ORM	ANALOG LINES	1,024	310
EUGNOR53RS0	RSC	ANALOG LINES	1,908	313
LVRNIACORS8	AXRSS	ANALOG LINES	384	313
ULM-MTMARS1	RSM	ANALOG LINES	512	314
PTLDOR11RS0	RSC	ANALOG LINES	558	321
LNRDNDMWRS6	AXRSS	ANALOG LINES	384	322
HDSNSDCERS1	RSM	ANALOG LINES	512	323
STMYMTMARS1	AXRSS	ANALOG LINES	384	325
RBRTMTMARS1	AXRSS	ANALOG LINES	384	332
WLCKMTMARS1	AXRSS	ANALOG LINES	512	334
HRSNNENWRS1	RSC	ANALOG LINES	415	355
BNCRIDMARS1	AXRSS	ANALOG LINES	2,048	356
TABRSDCORS1	AXRSS	ANALOG LINES	512	356
DNVRCOCLRS0	ORM	ANALOG LINES	512	360
SNFENM58RS1	RSM	ANALOG LINES	532	363
BLSSIDMARS1	AXRSS	ANALOG LINES	2,048	368
CSFRIDMARS1	AXRSS	ANALOG LINES	2,048	368
IRQSSDCORS1	AXRSS	ANALOG LINES	512	369
CLCKOR53DS0	DMS10	ANALOG LINES	432	374
GLNDWYMARS1	RSC	ANALOG LINES	640	382
NRFLNENWDS0	DMS100	ANALOG LINES	1,277	383
FRMBMTMARS1	AXRSS	ANALOG LINES	512	384
WLSLMTMARS1	AXRSS	ANALOG LINES	512	384
DBEQCONCRS1	DMS10_REMOTE	ANALOG LINES	495	385
RNWCIACORS8	AXRSS	ANALOG LINES	512	387
FAMTNDBCRS4	RSC	ANALOG LINES	638	394
PLGRNENWRS1	GENERIC	ANALOG LINES	437	394
WSPTOR64DS0	DMS10	ANALOG LINES	1,276	396
MANVNDBCRS6	RSC	ANALOG LINES	445	398

DCKRCOMARS1	RSM	ANALOG LINES	512	399
WIBXMTMARS1	AXRSS	ANALOG LINES	640	401
EGPKMTMARS1	AXRSS	ANALOG LINES	512	402
FNLDMNFORS3	RSM	ANALOG LINES	640	405
SLCKNENWRS1	RSC	ANALOG LINES	575	405
ROY-UTMARS2	GENERIC	ANALOG LINES	1,946	409
ORSLORXCRS1	ORM	ANALOG LINES	512	410
STLBNENWRS1	AXRSS	ANALOG LINES	512	410
YAMPCOMARS1	AXRSS	ANALOG LINES	512	415
AURRCOMBR1	ORM	ANALOG LINES	1,152	431
STTLWAWRS1	RSC	ANALOG LINES	1,024	438
OPRTMTMARS1	AXRSS	ANALOG LINES	512	445
DDVLAZNMRS1	RSC	ANALOG LINES	640	447
BOISIDNWRS4	ORM	ANALOG LINES	512	448
DNBRIACORS8	AXRSS	ANALOG LINES	512	452
SPDLWA01DS0	DMS10	ANALOG LINES	1,276	457
WSLYIACORS6	AXRSS	ANALOG LINES	512	459
GRNRNDBCRS4	RSC	ANALOG LINES	510	460
TCSNAZMLRS2	RSM	ANALOG LINES	512	461
WLMSIACORS8	AXRSS	ANALOG LINES	512	461
HOMRNENWRS1	AXRSS	ANALOG LINES	512	469
AXTLNENWRS1	RSC	ANALOG LINES	637	482
WGLCMTMARS1	AXRSS	ANALOG LINES	640	482
WARDCOMARS1	RSM	ANALOG LINES	1,024	488
LEDSUTMARS1	RSM	ANALOG LINES	4,480	490
BGSPNENWRS1	AXRSS	ANALOG LINES	640	491
WLDACOMARS1	AXRSS	ANALOG LINES	768	493
MORNWYMARS1	RSC	ANALOG LINES	1,270	495
NZPRID01DS0	DMS10	ANALOG LINES	636	498
OVIDCOMARS1	AXRSS	ANALOG LINES	2,048	499
AGLRCOMARS1	AXRSS	ANALOG LINES	2,048	501
CKRVOR01RS0	RSC	ANALOG LINES	638	504
CMSTMNCORS5	RSC	ANALOG LINES	637	504
RBRTIDMARS1	GENERIC	ANALOG LINES	1,151	515
PHNXAZNODS2	DMS100	ANALOG LINES	2,301	517
CLPKMTMARS1	AXRSS	ANALOG LINES	640	518
MRTGIDMARS1	AXRSS	ANALOG LINES	832	521
ASFKAZMARS1	RSM	ANALOG LINES	1,024	523
WHMRIACORS8	AXRSS	ANALOG LINES	640	524
CGGNIACORS4	AXRSS	ANALOG LINES	640	542
NCLTMNNCRS2	RSC	ANALOG LINES	764	549
SABNMNSARS7	RSC	ANALOG LINES	893	551
WHNGIACORS4	AXRSS	ANALOG LINES	640	554
BOISIDRCRS0	RSM	ANALOG LINES	640	559
FRTHIDMARS1	AXRSS	ANALOG LINES	768	561
GLLPNMFWR1	RSC	ANALOG LINES	700	562
JSCYAZMARS1	RSC	ANALOG LINES	768	562
SLTNCOMARS1	RSC	ANALOG LINES	635	566
GWNRNDBCRS6	RSC	ANALOG LINES	1,086	573
DGWYUTMADS0	DMS10	ANALOG LINES	2,240	583
DWNYIDMARS1	AXRSS	ANALOG LINES	768	588
HSSPCOMARS1	AXRSS	ANALOG LINES	640	591
GLCYIACORS3	AXRSS	ANALOG LINES	640	594
CRNUTMARS1	RSC	ANALOG LINES	1,920	599
SWVLMNSVRS5	AXRSS	ANALOG LINES	640	600
MRRLIACORS9	AXRSS	ANALOG LINES	768	605
CLMNSDCORS1	AXRSS	ANALOG LINES	768	610
ANTHIACORS3	AXRSS	ANALOG LINES	768	611
WNBGAZ01RS1	RSC	ANALOG LINES	1,278	613
LSMNIDMARS1	AXRSS	ANALOG LINES	1,152	614

OLFTWYMARS1	AXRSS	ANALOG LINES	2,048	620
WHWSDSCORS1	RSM	ANALOG LINES	1,280	625
HWLSNENWRS1	RSC	ANALOG LINES	1,270	626
NHFRIACORS9	GENERIC	ANALOG LINES	696	626
CCVLIACORS3	AXRSS	ANALOG LINES	896	627
FLCYOR58DS0	DMS10	ANALOG LINES	1,276	627
DYTNIDMARS1	AXRSS	ANALOG LINES	2,048	631
BLTNMNNORSA	ORM	ANALOG LINES	1,152	633
RYNLNDBCRS8	RSC	ANALOG LINES	699	634
VBRGSDCERS1	RSM	ANALOG LINES	1,024	634
CAIRNENWRS1	AXRSS	ANALOG LINES	768	635
PTLDOR14RS0	RSC	ANALOG LINES	1,150	642
LHSPIDMARS1	AXRSS	ANALOG LINES	2,048	643
EMSNNENWRS1	RSC	ANALOG LINES	1,276	646
PLMNAZMARS1	RSC	ANALOG LINES	1,280	647
CKSNNEUWRS1	RSC	ANALOG LINES	1,276	649
RNLSIACORS0	RSM	ANALOG LINES	768	653
THSNNDBCRS5	RSC	ANALOG LINES	957	653
PYTNCOMARS1	RSM	ANALOG LINES	1,535	654
ESTNWA01DS0	DMS10	ANALOG LINES	1,276	655
MPLSMNGERSA	ORM	ANALOG LINES	1,152	658
SHPHMTMARS1	RSM	ANALOG LINES	1,023	658
CRMTWA01DS0	DMS10	ANALOG LINES	1,268	659
AMSTMTMARS1	RSM	ANALOG LINES	1,024	663
BRDGMTMARS1	AXRSS	ANALOG LINES	768	667
LKPRSDCORS1	AXRSS	ANALOG LINES	768	670
OXFRNENWRS1	AXRSS	ANALOG LINES	768	674
CMRNNMMARS1	RSM	ANALOG LINES	1,024	675
NEOLIAORS4	GENERIC	ANALOG LINES	768	683
KEWTMKNERS7	AXRSS	ANALOG LINES	768	685
GLCRCOMARS1	AXRSS	ANALOG LINES	2,048	688
TACMWFARS1	RSC	ANALOG LINES	2,522	690
WYNDNDBARS4	RSC	ANALOG LINES	1,276	691
MTIRNMIRS7	AXRSS	ANALOG LINES	768	693
SXRPIACORS2	AXRSS	ANALOG LINES	896	693
TRRBOR01RS0	RSC	ANALOG LINES	1,280	695
ALTAUTMARS1	RSC	ANALOG LINES	1,920	699
SPDLUTMARS1	RSM	ANALOG LINES	1,280	706
PMBNNDBCRS8	AXRSS	ANALOG LINES	768	707
STRYWYMARS1	AXRSS	ANALOG LINES	1,152	726
CNVLSDCERS1	RSM	ANALOG LINES	1,024	727
GLGTMARS1	RSM	ANALOG LINES	1,125	729
HTTNNDBCRS5	AXRSS	ANALOG LINES	768	729
PTLDOR13RS0	RSC	ANALOG LINES	1,324	729
WHTLAZMADS0	DMS10	ANALOG LINES	1,280	745
GLVLMNGLRS4	RSM	ANALOG LINES	1,024	746
WNDVUTMADS0	AXE	ANALOG LINES	2,048	747
MPTNOR54DS0	DMS10	ANALOG LINES	1,276	749
DIKEIACORS9	GENERIC	ANALOG LINES	768	750
GLVYMNORRSA	ORM	ANALOG LINES	1,152	752
BLDRCO47RS1	ORM	ANALOG LINES	1,152	762
CRGMID01DS0	DMS10	ANALOG LINES	1,276	768
DECLIDMARS1	GENERIC	ANALOG LINES	960	768
ELBRCOMARS1	DMS10_REMOTE	ANALOG LINES	1,024	776
KNBGCOMARS1	AXRSS	ANALOG LINES	896	776
VEYOUTMARS1	RSM	ANALOG LINES	4,490	780
MINTNDBARS2	RSC	ANALOG LINES	1,276	789
EMCKNENWRS1	AXRSS	ANALOG LINES	896	792
LARLNENWRS1	GENERIC	ANALOG LINES	892	801
PRCYMTMARS1	AXRSS	ANALOG LINES	2,048	805

KNDRNDBCRS4	AXRSS	ANALOG LINES	896	806
TOFTMNTBRS6	RSM	ANALOG LINES	1,280	811
PTGNAZMARS1	RSC	ANALOG LINES	1,280	814
GRACIDMARS1	AXRSS	ANALOG LINES	2,048	815
ALCSSDCORS1	AXRSS	ANALOG LINES	896	823
CNFYMT02RS1	AXRSS	ANALOG LINES	896	824
PRAYMTMARS1	AXRSS	ANALOG LINES	2,048	824
MMTHWYMADS0	AXE	ANALOG LINES	2,048	828
AVDLCOMARS1	RSC	ANALOG LINES	1,280	836
BUHLMNBURS2	AXRSS	ANALOG LINES	896	837
PTLDOR12RS0	RSC	ANALOG LINES	1,080	840
MRBLMNMARS2	AXRSS	ANALOG LINES	1,024	846
DNVRCOMA3GT	DMS100	ANALOG LINES	993	848
NWODNDBCRS5	AXRSS	ANALOG LINES	1,024	849
JEWLIACORS8	AXRSS	ANALOG LINES	1,024	852
MMTHAZMARS1	RSC	ANALOG LINES	1,280	858
LYNSNENWRS1	RSC	ANALOG LINES	1,276	863
TNCKAZMARS1	RSM	ANALOG LINES	1,024	864
HYDNAZMARS1	RSC	ANALOG LINES	1,280	865
LKPKIACORS8	AXRSS	ANALOG LINES	1,024	865
MTNRNMMARS1	RSM	ANALOG LINES	1,281	870
RNDHNENWRS1	RSC	ANALOG LINES	1,269	871
SNYSWA01RS0	GENERIC	ANALOG LINES	1,018	871
MTGNUTMARS1	RSC	ANALOG LINES	1,280	872
ERHMIACORS7	AXRSS	ANALOG LINES	1,024	873
FRVWMTMARS1	AXRSS	ANALOG LINES	1,152	875
MNLYIACORS4	RSC	ANALOG LINES	1,279	876
FCTWMTMARS1	RSM	ANALOG LINES	1,536	884
INKMIDMARS1	AXRSS	ANALOG LINES	2,048	884
LVMRIACORS3	RSC	ANALOG LINES	1,274	885
HLFRMNCORS7	RSC	ANALOG LINES	1,008	894
BNHDUTMARS2	RSC	ANALOG LINES	1,278	900
CTGVMNCBRS3	RSM	ANALOG LINES	1,024	906
WTBGWA01DS0	DMS10	ANALOG LINES	1,276	906
CSCDMTMARS1	RSM	ANALOG LINES	1,024	908
LTTNCOMADS0	5E	ANALOG LINES	1,536	910
BLLVWAGLRS3	RSC	ANALOG LINES	1,359	911
RIRIIDMARS1	AXRSS	ANALOG LINES	1,664	916
NPRTWA01DS0	DMS10	ANALOG LINES	1,274	925
BLDRMTMARS1	AXRSS	ANALOG LINES	1,024	934
PTRSWA01DS0	DMS10	ANALOG LINES	1,274	935
WHTNIACORS3	AXRSS	ANALOG LINES	1,280	939
CPMTCOMARS1	DMS10_REMOTE	ANALOG LINES	1,536	944
MCCMIDMARS1	AXRSS	ANALOG LINES	2,048	954
DCHSUTMARS1	RSC	ANALOG LINES	1,278	955
ECRUTMARS1	RSC	ANALOG LINES	1,280	957
WDRVNENWRS1	AXRSS	ANALOG LINES	1,152	964
ALPKCOMARS1	DMS10_REMOTE	ANALOG LINES	2,048	969
BOISIDWERS3	ORM	ANALOG LINES	1,024	969
LPCYNENWRS1	AXRSS	ANALOG LINES	1,152	969
STFDOR56RS0	RSC	ANALOG LINES	1,264	976
LNNGIACORS5	AXRSS	ANALOG LINES	1,152	977
VAILAZNORS1	RSC	ANALOG LINES	1,280	977
CLMRIACORS5	AXRSS	ANALOG LINES	1,152	982
ALPKCOMARS2	DMS10_REMOTE	ANALOG LINES	1,268	985
ADAROR21DS0	DMS10	ANALOG LINES	2,558	987
KLFOR54RS0	RSC	ANALOG LINES	1,283	996
SPRNNMMARS1	RSM	ANALOG LINES	1,024	999
PNSCNMMARS1	RSM	ANALOG LINES	1,547	1,001
BLFDNDBCRS5	GENERIC	ANALOG LINES	2,048	1,002

HRBGSDCORS1	RSM	ANALOG LINES	1,536	1,005
MRCLOR53DS0	DMS10	ANALOG LINES	1,276	1,005
VNMTIACORS9	AXRSS	ANALOG LINES	1,152	1,006
GLBNAZMARS1	RSC	ANALOG LINES	1,280	1,008
BLRVOR53DS0	DMS10	ANALOG LINES	1,274	1,010
IDCYIDMARS1	AXRSS	ANALOG LINES	2,048	1,012
JOLTMTMARS1	AXRSS	ANALOG LINES	1,152	1,012
WKFDNENWRS1	GENERIC	ANALOG LINES	1,022	1,016
BNSNAZSDDS0	DMS10	ANALOG LINES	1,280	1,018
RNTNWA01RS0	ORM	ANALOG LINES	7,295	1,020
STFDAZMARS1	RSC	ANALOG LINES	1,276	1,023
FUTNNENWRS1	RSC	ANALOG LINES	1,277	1,032
GRNGIACORS9	GENERIC	ANALOG LINES	1,087	1,037
GLLPNMEARS1	RSC	ANALOG LINES	1,275	1,038
OGLVMNOARS2	AXRSS	ANALOG LINES	1,152	1,039
PTGNAZELRS1	RSC	ANALOG LINES	1,280	1,046
STTLWACHRS0	ORM	ANALOG LINES	3,840	1,047
KIOWCOMARS1	DMS10_REMOTE	ANALOG LINES	2,026	1,053
WRGHWYMARS1	RSC	ANALOG LINES	1,279	1,056
PNBLNMMARS1	RSM	ANALOG LINES	1,280	1,061
CLHNCOMARS1	RSM	ANALOG LINES	1,280	1,066
MELBIDMARS1	AXRSS	ANALOG LINES	2,048	1,069
MNTRCOMARS1	RSC	ANALOG LINES	1,266	1,072
GRNRMTMARS1	AXRSS	ANALOG LINES	2,048	1,081
OKLDNEUWRS1	RSC	ANALOG LINES	1,274	1,087
MLVRIACORS6	AXRSS	ANALOG LINES	1,280	1,091
LTTNCOMLRS1	ORM	ANALOG LINES	1,536	1,095
CLNCMTMARS1	AXRSS	ANALOG LINES	1,280	1,097
DESMDCORS1	AXRSS	ANALOG LINES	1,280	1,106
MPTNIACORS8	AXRSS	ANALOG LINES	1,280	1,108
UNWDIACORS5	GENERIC	ANALOG LINES	1,152	1,109
HMPHNENWRS2	RSC	ANALOG LINES	1,274	1,110
DNRHWMARS1	AXRSS	ANALOG LINES	1,280	1,112
DNVRCOXR1	RSM	ANALOG LINES	1,536	1,116
CLVROR01RS0	RSC	ANALOG LINES	1,280	1,124
HMBGIACORS3	AXRSS	ANALOG LINES	1,280	1,128
PRCYIACORS0	RSM	ANALOG LINES	1,536	1,130
OKCKCOMARS1	AXRSS	ANALOG LINES	1,408	1,133
DLCTIACERS9	AXRSS	ANALOG LINES	1,280	1,139
TMBSAZMARS1	RSC	ANALOG LINES	1,920	1,147
VGHNMTMARS1	RSM	ANALOG LINES	1,536	1,150
OMAHNEMHRSA	RSC	ANALOG LINES	2,552	1,164
JLBGCOMARS1	AXRSS	ANALOG LINES	2,048	1,168
MNHTMTMARS1	RSM	ANALOG LINES	2,045	1,169
ARTNSDCORS1	RSM	ANALOG LINES	1,536	1,173
CRFRNENWRS1	RSC	ANALOG LINES	1,906	1,176
LRMRNDBARS3	AXRSS	ANALOG LINES	1,536	1,179
BGTNNECORS1	RSM	ANALOG LINES	1,536	1,190
PNDRNEUWRS1	RSC	ANALOG LINES	1,894	1,197
HDSNCOMARS1	AXRSS	ANALOG LINES	2,048	1,200
RDRVNMARS1	RSM	ANALOG LINES	1,536	1,202
CTWDID01DS0	DMS10	ANALOG LINES	1,916	1,208
PKCYIACORS9	AXRSS	ANALOG LINES	1,408	1,213
LEBGOR54RS0	GENERIC	ANALOG LINES	1,536	1,217
OURYCOMARS1	RSC	ANALOG LINES	1,920	1,224
STARIDNMRS2	AXRSS	ANALOG LINES	1,408	1,224
EDHZIDMARS1	AXRSS	ANALOG LINES	2,048	1,225
LAKEWYMARS1	AXRSS	ANALOG LINES	2,048	1,225
MPLSMN07RSA	ORM	ANALOG LINES	1,536	1,231
RYTNMNRNRS5	AXRSS	ANALOG LINES	1,406	1,238

SLTZOR66DS0	DMS10	ANALOG LINES	1,916	1,245
SFRKCOMARS1	RSC	ANALOG LINES	1,536	1,247
LRNSIACORS8	AXRSS	ANALOG LINES	1,408	1,248
CTWDAZEARS1	RSM	ANALOG LINES	2,048	1,252
DUBQIANWRS5	RSC	ANALOG LINES	1,401	1,255
WLCTIACORS2	AXRSS	ANALOG LINES	1,536	1,262
ELWDNENWRS1	AXRSS	ANALOG LINES	1,408	1,264
HGMNIDMARS1	AXRSS	ANALOG LINES	2,048	1,267
MLTWMTMARS1	RSM	ANALOG LINES	1,536	1,275
AVONMNVORS3	RSC	ANALOG LINES	1,910	1,289
APPLMNAPRS2	RSC	ANALOG LINES	1,895	1,291
CRSCIACORS5	GENERIC	ANALOG LINES	1,344	1,292
NASHIACORS4	RSC	ANALOG LINES	1,472	1,294
VOLGSDCORS1	AXRSS	ANALOG LINES	1,408	1,294
VAILAZSODS0	DMS10	ANALOG LINES	1,920	1,295
HNNGMNHERS5	RSC	ANALOG LINES	1,658	1,298
YRNLAZMARS1	RSM	ANALOG LINES	1,536	1,299
DNVRCOCPRS1	RSM	ANALOG LINES	1,374	1,305
JOYCWA01DS0	DMS10	ANALOG LINES	2,560	1,312
HNVRMNHBR4	RSM	ANALOG LINES	1,536	1,320
SHSHIDMARS1	AXRSS	ANALOG LINES	2,048	1,329
HYDNCOMARS1	AXRSS	ANALOG LINES	1,536	1,342
KRNYAZMARS1	RSC	ANALOG LINES	1,920	1,346
LWLLOR53DS0	DMS10	ANALOG LINES	2,238	1,362
HWLYMNHARS4	ORM	ANALOG LINES	1,920	1,363
BURLOR62DS0	DMS10	ANALOG LINES	1,913	1,374
EAGNMNFRSA	RSC	ANALOG LINES	2,552	1,391
ATSNENWDS0	DMS10	ANALOG LINES	2,554	1,392
CRCYAZMARS1	RSM	ANALOG LINES	1,920	1,392
GLFYIDMARS1	AXRSS	ANALOG LINES	2,048	1,393
SPRRAZMARS1	RSC	ANALOG LINES	1,700	1,395
ELPNSDCORS1	RSM	ANALOG LINES	1,536	1,399
PIMAAZMARS1	RSC	ANALOG LINES	1,916	1,399
SPFDNENWRS2	RSC	ANALOG LINES	1,913	1,400
LAPWID01DS0	DMS10	ANALOG LINES	1,916	1,402
STBTWASTRS1	RSM	ANALOG LINES	2,048	1,406
NWBTMNC LRSA	ORM	ANALOG LINES	2,048	1,408
LNLKWA01DS0	DMS10	ANALOG LINES	1,916	1,413
NSLKUTMARS1	GENERIC	ANALOG LINES	2,047	1,416
FTPRSDCERS1	RSM	ANALOG LINES	1,535	1,418
KENTWAOBR50	ORM	ANALOG LINES	5,760	1,418
CSLTNDBCORS3	RSM	ANALOG LINES	1,920	1,430
THFKMTMARS1	RSM	ANALOG LINES	1,532	1,437
DLNRCOMARS1	RSC	ANALOG LINES	1,661	1,442
PMRYWA01DS0	DMS10	ANALOG LINES	1,912	1,442
STRTIACORS5	AXRSS	ANALOG LINES	1,536	1,445
CNPNIACORS8	AXRSS	ANALOG LINES	1,664	1,451
BRNMMNBARS3	RSM	ANALOG LINES	1,920	1,454
MAYRAZMARS1	RSM	ANALOG LINES	1,993	1,461
KOSKID01DS0	DMS10	ANALOG LINES	1,914	1,474
CMVRAZRRRS1	RSM	ANALOG LINES	1,920	1,477
CHSTMNCHRS3	AXRSS	ANALOG LINES	1,664	1,485
PTVLCOMARS1	AXRSS	ANALOG LINES	2,048	1,485
ACKLIACORS8	RSC	ANALOG LINES	1,917	1,494
DNVRIACORS9	GENERIC	ANALOG LINES	1,536	1,496
TEA-SDCORS1	RSM	ANALOG LINES	1,536	1,499
MNCSCOMARS1	RSC	ANALOG LINES	2,560	1,501
BRPTNENWRS1	RSC	ANALOG LINES	1,634	1,503
VALEORXCRS1	RSM	ANALOG LINES	2,048	1,503
STPLNENWRS1	AXRSS	ANALOG LINES	1,792	1,504

TKMHNENWRS1	RSC	ANALOG LINES	1,913	1,504
HLBONDBCRS4	AXRSS	ANALOG LINES	1,664	1,510
BWBKMNBIERS8	AXRSS	ANALOG LINES	1,792	1,520
GRTWCOMARS1	AXRSS	ANALOG LINES	2,048	1,524
PRBGIACORS3	RSC	ANALOG LINES	1,697	1,525
CLFXIACORS0	RSM	ANALOG LINES	1,920	1,528
FTMDAZNORS1	RSM	ANALOG LINES	2,048	1,528
CLSTMTMADS0	DMS10	ANALOG LINES	3,024	1,532
BLHMWALURS0	RSM	ANALOG LINES	2,048	1,536
WTCYNDBA84G	DMS10	ANALOG LINES	1,984	1,537
VCTRMTMARS1	AXRSS	ANALOG LINES	4,096	1,539
MHNMMNMARS9	ORM	ANALOG LINES	1,920	1,552
SNMNAZMADS0	DMS100	ANALOG LINES	2,560	1,554
OGDNUT15RS1	RSC	ANALOG LINES	1,917	1,559
BRTTIACORS8	RSC	ANALOG LINES	1,777	1,560
QUSTNMMARS1	RSM	ANALOG LINES	2,052	1,560
STGRUT11RS1	RSM	ANALOG LINES	3,968	1,562
WRDNWA01DS0	DMS10	ANALOG LINES	1,916	1,563
LUSKWYMARS1	RSC	ANALOG LINES	1,705	1,564
WRSPOR52DS0	DMS10	ANALOG LINES	1,910	1,569
ISLKMNILRS1	RSM	ANALOG LINES	2,049	1,576
MLLRSDCORS1	AXRSS	ANALOG LINES	1,792	1,576
NPMOIDMARS1	AXRSS	ANALOG LINES	1,664	1,577
FRSYMTEMARS1	AXRSS	ANALOG LINES	1,792	1,581
PCHNIACORS3	AXRSS	ANALOG LINES	1,920	1,582
HDSNIACORS9	GENERIC	ANALOG LINES	1,664	1,589
BLCNAZMARS1	RSM	ANALOG LINES	1,920	1,590
LSCRNM16RS1	RSM	ANALOG LINES	3,215	1,599
MEADCOMARS1	AXRSS	ANALOG LINES	2,048	1,609
SNTQUTMARS2	RSC	ANALOG LINES	2,556	1,612
KRNGCOMARS1	AXRSS	ANALOG LINES	1,792	1,613
ESTNNMMARS1	RSM	ANALOG LINES	2,564	1,623
RDGWCOMARS1	RSC	ANALOG LINES	1,920	1,632
MONRUTMARS1	RSC	ANALOG LINES	2,560	1,639
ATHNOR56RS0	RSC	ANALOG LINES	1,909	1,640
LBLKWA01DS0	DMS10	ANALOG LINES	1,914	1,645
NDLDCOMARS1	ORM	ANALOG LINES	2,090	1,647
CRTOMNCBRS3	ORM	ANALOG LINES	2,432	1,660
HLCYSDCORS1	RSM	ANALOG LINES	2,048	1,663
BLBTOR01DS0	DMS10	ANALOG LINES	2,546	1,681
ROY-UTMARS1	GENERIC	ANALOG LINES	2,048	1,681
HATCNMMARS1	RSM	ANALOG LINES	2,050	1,693
AZCYAZ03RS1	RSC	ANALOG LINES	2,556	1,699
PRWNUTMARS1	RSC	ANALOG LINES	2,557	1,701
SLBAMNSARS2	RSM	ANALOG LINES	1,920	1,704
SILTCOMARS1	AXRSS	ANALOG LINES	2,048	1,705
SNDSMNSARS2	AXRSS	ANALOG LINES	1,920	1,705
ANWONENWRS1	AXRSS	ANALOG LINES	1,920	1,714
TRACMNTRRS6	RSC	ANALOG LINES	2,038	1,714
LSLLCOMARS1	AXRSS	ANALOG LINES	2,048	1,720
GLVYMNDORSA	ORM	ANALOG LINES	1,920	1,738
MARNAZ02RS1	RSC	ANALOG LINES	2,560	1,739
NWODIACORS3	RSC	ANALOG LINES	2,556	1,745
STGRUTSCRS1	RSM	ANALOG LINES	3,456	1,754
GYLRMNGARS2	RSC	ANALOG LINES	1,911	1,757
AULTCOMARS1	AXRSS	ANALOG LINES	2,048	1,759
DRBYMTMARS1	AXRSS	ANALOG LINES	4,000	1,759
ORCLAZMARS1	RSC	ANALOG LINES	2,560	1,769
MRCPAZMARS1	RSC	ANALOG LINES	1,919	1,771
GMFLCOMARS1	AXRSS	ANALOG LINES	2,048	1,773

LAACNM01RS1	RSM	ANALOG LINES	2,560	1,779
WHTHMTMARS1	AXRSS	ANALOG LINES	1,920	1,780
EAGNMNZKRSA	RSC	ANALOG LINES	2,554	1,781
ABRDSDCORS2	RSM	ANALOG LINES	2,560	1,782
STTLWA04RS0	ORM	ANALOG LINES	2,560	1,784
RCMDUTMARS1	RSC	ANALOG LINES	2,560	1,791
GLRKWYMARS1	RSC	ANALOG LINES	2,560	1,794
SHLBMTMADS0	AXE	ANALOG LINES	2,432	1,800
CLVLUTMARS1	RSM	ANALOG LINES	2,560	1,808
NWCSCOMARS1	AXRSS	ANALOG LINES	2,048	1,811
EAGNMNLBRS1	RSC	ANALOG LINES	2,427	1,818
HMBLAZMARS1	RSM	ANALOG LINES	2,569	1,829
LSBNNDBCRS6	AXRSS	ANALOG LINES	1,920	1,829
RSWLNMSORS1	RSC	ANALOG LINES	2,552	1,838
STGRUTBLRS1	RSM	ANALOG LINES	4,480	1,838
MLFRIACORS3	AXRSS	ANALOG LINES	2,048	1,840
LRKSCONMRS1	RSM	ANALOG LINES	2,048	1,841
SNTSNMAARSA	RSM	ANALOG LINES	3,346	1,844
GRCNAZMARS1	RSM	ANALOG LINES	2,048	1,846
MOLKMNMLRS4	RSM	ANALOG LINES	2,560	1,866
LIMNCOMARS1	AXRSS	ANALOG LINES	2,048	1,870
MRGNUTMARS1	RSC	ANALOG LINES	2,560	1,870
NSHWMNNARS8	AXRSS	ANALOG LINES	2,046	1,871
CLMBMTMARS1	AXRSS	ANALOG LINES	2,048	1,875
EPHRUTMARS1	RSC	ANALOG LINES	2,548	1,876
LAMSNMMARS1	RSM	ANALOG LINES	2,816	1,881
NYSSORXCRS1	RSM	ANALOG LINES	2,048	1,891
TCSNAZRMRS1	RSC	ANALOG LINES	3,200	1,898
ALBYOR63RS0	ORM	ANALOG LINES	4,096	1,926
MIAMAZMARS1	RSC	ANALOG LINES	2,560	1,926
TWNSMTMARS1	AXRSS	ANALOG LINES	2,048	1,940
HLPRUTMARS1	RSC	ANALOG LINES	2,560	1,942
ERICOMARS1	RSM	ANALOG LINES	2,048	1,947
BEVRUTMARS1	RSC	ANALOG LINES	2,556	1,957
WHTKAZMARS2	RSM	ANALOG LINES	2,560	1,962
EAGNMNRCRSA	RSC	ANALOG LINES	2,730	1,965
CTFDMNCHRS8	RSM	ANALOG LINES	2,560	1,970
WGTCOMARS1	RSM	ANALOG LINES	2,560	1,975
PNRSCOMARS1	AXRSS	ANALOG LINES	2,560	1,979
AFACCOMADS0	DMS100	ANALOG LINES	6,196	2,009
WYLVMTMARS1	AXRSS	ANALOG LINES	2,304	2,010
MNPLUTMARS1	RSC	ANALOG LINES	2,558	2,013
COOKMNCORS6	AXRSS	ANALOG LINES	2,304	2,030
JFSNOR63DS0	DMS10	ANALOG LINES	2,556	2,040
MYVLNDBCRS7	RSC	ANALOG LINES	2,556	2,041
KMBRIDMARS1	AXRSS	ANALOG LINES	2,432	2,042
KAMHID01DS0	DMS10	ANALOG LINES	2,556	2,049
WNDLIDMARS1	AXRSS	ANALOG LINES	2,176	2,049
MTVRIACORS8	RSC	ANALOG LINES	3,383	2,052
HNCKMNHIRS3	AXRSS	ANALOG LINES	2,176	2,085
GDMRMNGMDS0	5E	ANALOG LINES	2,561	2,097
SALNUTMARS1	RSC	ANALOG LINES	2,556	2,099
OLTHCOMARS1	RSC	ANALOG LINES	2,560	2,106
FLNDSDCORS1	AXRSS	ANALOG LINES	2,304	2,114
MINDNENWRS1	AXRSS	ANALOG LINES	2,304	2,118
RSCYMNRCRS3	AXRSS	ANALOG LINES	2,432	2,118
FOLYMNFOR9	RSC	ANALOG LINES	2,345	2,127
WLTNAZMARS1	RSC	ANALOG LINES	2,555	2,146
TAOSNMNORS1	RSM	ANALOG LINES	2,559	2,147
HLNAMTNORS1	RSM	ANALOG LINES	2,560	2,150

CNRDMTMARS1	RSM	ANALOG LINES	2,560	2,154
WUNNIACORS4	AXRSS	ANALOG LINES	2,432	2,164
ORVLWA01DS0	DMS10	ANALOG LINES	2,552	2,170
SRVSAZNORS1	RSC	ANALOG LINES	2,560	2,176
CLVSNMWERS1	RSC	ANALOG LINES	3,189	2,177
CHBLSDCORS1	RSM	ANALOG LINES	2,560	2,182
GRNRIACORS9	RSC	ANALOG LINES	2,560	2,183
DYTNWA01DS0	DMS10	ANALOG LINES	2,552	2,193
MARNAZMARS1	RSC	ANALOG LINES	3,170	2,199
MPLSMNDTDS2	DMS100	ANALOG LINES	2,547	2,222
EAGNMNZNRSA	RSC	ANALOG LINES	4,474	2,223
HDPTWA01RS1	RSM	ANALOG LINES	2,560	2,227
BTLKMNBAR8	RSC	ANALOG LINES	3,200	2,232
CNCYNENWRS1	AXRSS	ANALOG LINES	2,560	2,237
CLTNIACCRS2	RSC	ANALOG LINES	2,552	2,238
WNLCWA01DS0	DMS10	ANALOG LINES	2,556	2,242
MTPLIDMARS1	AXRSS	ANALOG LINES	2,560	2,250
MEKRCOMARS1	AXRSS	ANALOG LINES	2,688	2,262
AFTNWYMARS1	RSC	ANALOG LINES	3,200	2,267
CHNDAZRSRS1	ORM	ANALOG LINES	4,279	2,290
BRHMMNBRRS3	AXRSS	ANALOG LINES	2,688	2,306
ORVLMNORRS8	RSC	ANALOG LINES	2,545	2,307
ONAWIACORS4	AXRSS	ANALOG LINES	2,560	2,308
VLLYNENWRS3	RSC	ANALOG LINES	2,547	2,309
NWRVAZMARS1	RSM	ANALOG LINES	2,561	2,310
PHNXAZLVDS0	DMS10	ANALOG LINES	3,186	2,320
EGGVIAACORS4	AXRSS	ANALOG LINES	2,688	2,321
ANFRNMMARS1	RSM	ANALOG LINES	2,578	2,324
MDTNIDMARS1	AXRSS	ANALOG LINES	2,432	2,326
EATNCOMARS1	AXRSS	ANALOG LINES	2,688	2,333
TUBCAZMARS1	RSM	ANALOG LINES	2,560	2,333
SDSPIDMARS1	AXRSS	ANALOG LINES	2,688	2,336
EAGNMNRARSA	RSC	ANALOG LINES	3,243	2,342
CLDNMNCARS7	RSC	ANALOG LINES	2,445	2,345
BOISID36RS0	RSC	ANALOG LINES	2,653	2,348
CNTNSDCORS1	AXRSS	ANALOG LINES	2,560	2,363
ROY-WA01DS0	DMS10	ANALOG LINES	2,560	2,368
OKRGOR01DS0	DMS10	ANALOG LINES	3,185	2,374
NPVNW01DS0	DMS10	ANALOG LINES	3,195	2,385
CLRIIACORS5	AXRSS	ANALOG LINES	2,560	2,396
SSTNSDCORS6	RSM	ANALOG LINES	2,560	2,398
SXCYIALDRS2	RSC	ANALOG LINES	3,190	2,399
STPLMNBERSA	ORM	ANALOG LINES	4,096	2,401
DDWSDCORS1	RSM	ANALOG LINES	3,200	2,408
CTBNMTMARS1	AXRSS	ANALOG LINES	2,688	2,411
CNCYCOMARS1	AXRSS	ANALOG LINES	4,096	2,420
HRDNMTMARS1	AXRSS	ANALOG LINES	2,816	2,423
MPLSMNASRSA	RSM	ANALOG LINES	3,072	2,428
GTVLUTMARS1	RSM	ANALOG LINES	3,840	2,429
LOLOMTMARS1	RSM	ANALOG LINES	3,072	2,444
ELK-WA01DS0	DMS10	ANALOG LINES	2,880	2,451
CHAPNMMARS1	RSM	ANALOG LINES	3,328	2,455
HAMLNMHBRS4	RSM	ANALOG LINES	3,072	2,475
PACHCO01DS0	DMS10	ANALOG LINES	3,834	2,480
KMMRWYMARS1	AXRSS	ANALOG LINES	2,816	2,490
CLRNMCORS2	AXRSS	ANALOG LINES	2,816	2,496
ALMGNMWERS1	RSM	ANALOG LINES	3,072	2,508
FRPLCOMARS1	AXRSS	ANALOG LINES	2,942	2,527
DRLDMTMARS1	AXRSS	ANALOG LINES	4,096	2,539
DLTHMNCRS7	ORM	ANALOG LINES	4,096	2,550

PLSDCOMADS0	DMS10	ANALOG LINES	3,518	2,552
VLNTNENWDS0	AXE	ANALOG LINES	2,816	2,559
LYNSCOMARS1	AXRSS	ANALOG LINES	4,096	2,560
GTBGNENWRS1	AXRSS	ANALOG LINES	2,816	2,568
SALMUTMARS2	RSC	ANALOG LINES	3,834	2,572
CTWDAZSORS1	RSM	ANALOG LINES	3,072	2,574
FLGSAZSORS1	RSM	ANALOG LINES	3,072	2,580
CNBHOR64DS0	DMS10	ANALOG LINES	3,824	2,589
GLWDMNGLRS6	AXRSS	ANALOG LINES	2,816	2,598
MSPKAZMADS0	DMS10	ANALOG LINES	3,840	2,602
WBSHMNWAR5	RSC	ANALOG LINES	3,185	2,604
PINEAZMARS1	RSM	ANALOG LINES	3,712	2,610
GRNBCOMADS0	AXE	ANALOG LINES	3,328	2,627
CSSLMNCLRS3	RSC	ANALOG LINES	3,192	2,638
DNVRCOFWRS1	RSM	ANALOG LINES	5,120	2,639
HNVIUTMARS1	RSC	ANALOG LINES	3,200	2,646
MTHUIDSORS1	AXRSS	ANALOG LINES	3,197	2,657
RVSDIDMARS1	AXRSS	ANALOG LINES	4,096	2,665
CLDMWA01DS0	DMS10	ANALOG LINES	3,184	2,675
STCHMNSCR9	RSM	ANALOG LINES	3,072	2,675
DLTHMNDBRS6	ORM	ANALOG LINES	3,712	2,677
TOLDOR66DS0	DMS10	ANALOG LINES	3,188	2,677
GRBLWA01DS0	DMS10	ANALOG LINES	3,198	2,679
GDLKCOMARS1	AXRSS	ANALOG LINES	3,072	2,680
NEPHUTMADS0	DMS10	ANALOG LINES	3,284	2,693
CRLSIACORS9	RSM	ANALOG LINES	3,072	2,698
GDNGIDMARS1	AXRSS	ANALOG LINES	2,816	2,702
IDSPCOMADS0	AXE	ANALOG LINES	4,096	2,707
RCFRMNRORS4	ORM	ANALOG LINES	3,072	2,713
AMFLIDMARS1	AXRSS	ANALOG LINES	3,584	2,722
WSPNNENWRS1	RSC	ANALOG LINES	3,826	2,729
GLHLOR55DS0	DMS10	ANALOG LINES	3,194	2,740
PTLWWA01DS0	DMS10	ANALOG LINES	3,198	2,743
MRTYNMMARS1	RSM	ANALOG LINES	3,840	2,754
CRCKCOMARS1	AXRSS	ANALOG LINES	3,328	2,758
GRETENWRS1	RSM	ANALOG LINES	3,072	2,803
RANROR01DS0	DMS10	ANALOG LINES	3,830	2,804
CRVSMTMARS1	AXRSS	ANALOG LINES	4,096	2,809
LEADSDCORS1	RSM	ANALOG LINES	3,583	2,809
KUNAIDMARS1	AXRSS	ANALOG LINES	3,968	2,814
WLBGCOMARS1	AXRSS	ANALOG LINES	4,083	2,815
EAGNMNRDRSA	RSC	ANALOG LINES	3,830	2,817
NGLSAZ03RS2	RSM	ANALOG LINES	3,072	2,817
ADELIACORS9	AXRSS	ANALOG LINES	3,200	2,822
SPLSMNSTR8	AXRSS	ANALOG LINES	3,328	2,824
BYRDNMMARS1	RSM	ANALOG LINES	3,584	2,840
NWLKWA01DS0	DMS10	ANALOG LINES	3,196	2,844
ANTHNMMARSA	RSM	ANALOG LINES	4,355	2,862
NPLNOR62DS0	DMS10	ANALOG LINES	3,190	2,870
CCCNCOMADS0	DMS10	ANALOG LINES	3,756	2,874
TCSNAZSODS0	5E	ANALOG LINES	3,072	2,889
LYTNUTMADS0	DMS10	ANALOG LINES	4,480	2,891
ARPKIACORS3	AXRSS	ANALOG LINES	3,456	2,895
MSVYIACORS6	AXRSS	ANALOG LINES	3,072	2,895
EHLNMTMARS1	RSM	ANALOG LINES	3,584	2,907
JHMLCOMARS1	AXRSS	ANALOG LINES	3,328	2,917
TCSNAZSERS4	RSC	ANALOG LINES	3,827	2,922
RDLGMTMARS1	AXRSS	ANALOG LINES	3,200	2,925
OLIVMNOLRS5	RSC	ANALOG LINES	3,190	2,955
CLFXWA01DS0	DMS10	ANALOG LINES	3,832	2,960

OSAGIACORS7	RSC	ANALOG LINES	3,294	2,975
WTRLIAWSRS2	RSC	ANALOG LINES	3,191	2,975
NMPAIDMARS1	ORM	ANALOG LINES	3,072	2,986
SCHLNENWRS1	RSC	ANALOG LINES	3,835	2,991
GFABNDBCRS5	RSC	ANALOG LINES	5,108	2,996
CLSPMNCBRS6	RSC	ANALOG LINES	3,830	3,009
STGRUTDXRS1	RSM	ANALOG LINES	4,480	3,012
FRTNMFWERS1	RSM	ANALOG LINES	3,584	3,014
GRMSIACORS1	AXRSS	ANALOG LINES	3,584	3,016
NIWTCOMADS0	DMS10	ANALOG LINES	3,838	3,020
WLMSAZMARS1	ORM	ANALOG LINES	3,588	3,020
DNVRCOOUDS0	5E	ANALOG LINES	5,119	3,024
JCVLOR56DS0	DMS10	ANALOG LINES	3,260	3,026
LSALNMWRRS1	RSM	ANALOG LINES	3,584	3,035
BRKBNENWDS0	AXE	ANALOG LINES	3,328	3,060
FRDRCOMADS0	DMS10	ANALOG LINES	3,840	3,097
STJSMNSJRS3	RSC	ANALOG LINES	3,179	3,100
DLTHMNDPRS6	ORM	ANALOG LINES	3,840	3,103
PSTNIDMARS1	AXRSS	ANALOG LINES	3,456	3,109
DLTHMNFSRS7	ORM	ANALOG LINES	4,864	3,120
VNLDCOMARS1	RSC	ANALOG LINES	3,548	3,124
SSTROR01DS1	DMS10	ANALOG LINES	3,834	3,131
MARNAZ03RS1	RSC	ANALOG LINES	3,838	3,156
MSLKWAABDS0	DMS10	ANALOG LINES	3,832	3,165
SHLYIDMARS1	AXRSS	ANALOG LINES	3,840	3,169
LESRMNLRS6	RSC	ANALOG LINES	3,642	3,174
STVLMNSTRS5	RSM	ANALOG LINES	3,584	3,175
TCSNAZRURS1	RSC	ANALOG LINES	6,395	3,178
HGLYAZMADS0	DMS10	ANALOG LINES	6,217	3,189
JCSNMNJARS8	AXRSS	ANALOG LINES	3,584	3,195
RPVYSDCORS1	RSM	ANALOG LINES	3,584	3,197
BDMDWA01RS1	RSM	ANALOG LINES	4,103	3,202
NRWLIACORS9	RSM	ANALOG LINES	3,584	3,233
WRTNOR64DS0	DMS10	ANALOG LINES	3,814	3,237
NVRRMNNARS4	RSM	ANALOG LINES	3,584	3,244
ONELNENWDS0	DMS10	ANALOG LINES	3,832	3,246
RDFLMNRARS6	RSC	ANALOG LINES	4,473	3,267
BLTNMNCERSA	ORM	ANALOG LINES	3,456	3,284
FLRNCOMARS1	AXRSS	ANALOG LINES	3,584	3,286
MNTIACORS4	AXRSS	ANALOG LINES	3,584	3,286
BCKLWA01DS0	DMS10	ANALOG LINES	3,826	3,289
OGDNUTWERS1	RSC	ANALOG LINES	3,550	3,294
SNFENMNORS1	RSM	ANALOG LINES	3,584	3,301
DLTHMNWARS7	ORM	ANALOG LINES	5,504	3,306
CRSBWA01DS0	DMS10	ANALOG LINES	3,836	3,324
ELOYAZ01RS1	RSC	ANALOG LINES	3,840	3,332
BOISIDMADS0	DMS100	ANALOG LINES	6,880	3,357
ALPIUTMARS1	RSC	ANALOG LINES	3,834	3,369
GAVLID01DS0	DMS10	ANALOG LINES	3,832	3,377
GFTNND-bars3	RSC	ANALOG LINES	3,701	3,379
ANMSIACORS4	AXRSS	ANALOG LINES	3,712	3,388
WAKNIACORS5	AXRSS	ANALOG LINES	3,712	3,415
CLELWA01DS0	DMS10	ANALOG LINES	3,826	3,442
BRSHCOMARS1	AXRSS	ANALOG LINES	4,096	3,443
MLBNSDCORS1	AXRSS	ANALOG LINES	3,712	3,444
HMPNIACORS4	RSC	ANALOG LINES	3,834	3,473
GDFRNDBCDs1	AXE	ANALOG LINES	4,096	3,512
PPSTMNPIRS8	AXRSS	ANALOG LINES	4,096	3,513
CLSPCO32RS1	RSM	ANALOG LINES	4,094	3,530
SHLNIATCRS3	AXRSS	ANALOG LINES	3,968	3,547

BLFRSDCORS1	RSM	ANALOG LINES	4,096	3,563
UMTLOR57RS0	RSC	ANALOG LINES	5,096	3,584
NSSWMNIRS9	RSC	ANALOG LINES	3,923	3,611
DVNPIAWSRS3	AXRSS	ANALOG LINES	4,096	3,628
VNTNIACORS4	AXRSS	ANALOG LINES	3,968	3,640
BFLOWYMARS1	AXRSS	ANALOG LINES	3,968	3,657
RGBYIDMARS1	AXRSS	ANALOG LINES	4,736	3,682
LVRNMNLURS2	AXRSS	ANALOG LINES	4,096	3,692
WHLDWYMARS1	RSM	ANALOG LINES	4,096	3,694
BLHKSDCERS1	RSM	ANALOG LINES	4,608	3,696
SXFLSDSERS1	RSM	ANALOG LINES	4,096	3,720
MRRSMNMORS5	RSC	ANALOG LINES	4,450	3,723
PHNXAZMADS1	DMS100	ANALOG LINES	5,084	3,757
GLNDMTMADS0	AXE	ANALOG LINES	4,992	3,820
HGLYAZQCDS0	DMS10	ANALOG LINES	4,240	3,822
NBRNMNNBRS6	RSM	ANALOG LINES	4,608	3,842
WLCXAZMARS1	RSC	ANALOG LINES	4,477	3,844
WRWKSDCORS1	RSM	ANALOG LINES	5,120	3,848
HRCNUTMARS1	RSM	ANALOG LINES	4,485	3,857
WNDMMNWI83G	DMS100	ANALOG LINES	4,465	3,857
BYFDCOMARS1	RSC	ANALOG LINES	4,474	3,870
FTLPCOMADS0	AXE	ANALOG LINES	4,480	3,880
SKCTMNSCR3	AXRSS	ANALOG LINES	4,224	3,884
OLWNIATCDS0	AXE	ANALOG LINES	4,608	3,905
MNSPCOMARS1	RSC	ANALOG LINES	5,106	3,925
WADNMNWA63G	DMS100	ANALOG LINES	5,114	3,938
HYRMUTMARS1	RSC	ANALOG LINES	4,480	3,951
WAUKIACODS0	AXE	ANALOG LINES	5,504	3,951
TCSNAZSERS3	RSC	ANALOG LINES	4,438	3,971
CRBTCOMARS1	AXRSS	ANALOG LINES	4,352	3,977
ELZBCO01DS0	DMS10	ANALOG LINES	4,476	3,989
WESRIDMARS1	AXRSS	ANALOG LINES	4,352	3,998
WNSLAZMADS1	DMS100	ANALOG LINES	5,119	4,054
BNVSCOMARS1	AXRSS	ANALOG LINES	4,608	4,062
CHSHMNCSRS2	AXRSS	ANALOG LINES	4,608	4,073
SHNDIACORS2	AXRSS	ANALOG LINES	4,864	4,081
PNCYMNPADS0	AXE	ANALOG LINES	4,736	4,086
HURNSDCODS0	AXE	ANALOG LINES	4,706	4,094
OCSHWA01DS0	DMS10	ANALOG LINES	5,111	4,108
HLDGNEWRS1	AXRSS	ANALOG LINES	4,480	4,124
MTVSCOMARS1	RSC	ANALOG LINES	5,053	4,145
DLLNMTMARS1	AXRSS	ANALOG LINES	4,352	4,149
TCMCNMMARS1	RSC	ANALOG LINES	5,084	4,150
LSLNNMNORS1	RSC	ANALOG LINES	5,116	4,168
SDNYMTMARS1	AXRSS	ANALOG LINES	4,608	4,173
LDVLCOMARS1	AXRSS	ANALOG LINES	4,736	4,178
CHRKIACORS2	RSC	ANALOG LINES	4,434	4,197
OGLLNENWRS1	RSC	ANALOG LINES	4,389	4,199
BLGRMTMARS1	RSM	ANALOG LINES	4,610	4,227
HMBLIACORS3	AXRSS	ANALOG LINES	4,608	4,230
RDFDWA01DS0	DMS10	ANALOG LINES	4,472	4,231
BLFSCOMARS1	RSM	ANALOG LINES	5,118	4,233
SEDNAZSORS3	RSM	ANALOG LINES	4,608	4,243
FLRNAZMARS1	RSC	ANALOG LINES	5,120	4,245
BUHLIDMARS1	AXRSS	ANALOG LINES	4,608	4,265
ISNTMNISRS4	RSM	ANALOG LINES	5,120	4,271
STVLMTMARS1	AXRSS	ANALOG LINES	6,656	4,306
BSLTCOMADS0	DMS10	ANALOG LINES	5,117	4,310
DLTHMNPLRS7	RSM	ANALOG LINES	5,122	4,323
RSVTUTMARS1	RSC	ANALOG LINES	5,112	4,331

WNTRACORS4	AXRSS	ANALOG LINES	4,736	4,348
DGLSWYMADS0	DMS100	ANALOG LINES	5,120	4,412
MSSLMTSORS1	ORM	ANALOG LINES	5,120	4,415
SXFLSDCODS1	5E	ANALOG LINES	5,632	4,472
BRTHCOMADS0	DMS10	ANALOG LINES	5,120	4,504
ESVLIACORS3	AXRSS	ANALOG LINES	4,863	4,533
WAYNNEUWRS1	RSC	ANALOG LINES	5,705	4,550
FRSCCOMADS0	DMS10	ANALOG LINES	5,514	4,554
FARGNDBCDS1	AXE	ANALOG LINES	4,864	4,555
SDNYNENWDS0	DMS100	ANALOG LINES	5,588	4,558
INDPIACORS3	AXRSS	ANALOG LINES	5,120	4,562
BNSNAZMADS0	DMS10	ANALOG LINES	5,120	4,575
CMVRAZMARS1	RSM	ANALOG LINES	5,120	4,578
GLWDIACORS5	AXRSS	ANALOG LINES	5,248	4,581
EPHRWA01DS0	DMS10	ANALOG LINES	5,108	4,586
ALGNIATCDS0	AXE	ANALOG LINES	5,248	4,590
IWFLIACORS6	AXRSS	ANALOG LINES	5,120	4,594
CSRKWA01DS0	DMS10	ANALOG LINES	5,117	4,602
PRRYIACORS4	AXRSS	ANALOG LINES	4,992	4,609
CLDGAZMARS1	RSC	ANALOG LINES	5,112	4,610
PAGEAZMADS0	DMS10	ANALOG LINES	5,120	4,621
RDOKIACORS6	AXRSS	ANALOG LINES	5,248	4,623
EVLTMNEVRS0	AXRSS	ANALOG LINES	5,632	4,638
MTVDMNMORS2	RSC	ANALOG LINES	4,782	4,655
MOKTIACORS6	RSC	ANALOG LINES	5,102	4,694
ANCNMTMARS1	AXRSS	ANALOG LINES	5,120	4,704
LARLMTMARS1	AXRSS	ANALOG LINES	4,992	4,708
RATNNMMADS0	5E	ANALOG LINES	5,120	4,712
PYTTIDMARS1	AXRSS	ANALOG LINES	5,120	4,720
TCSNAZNODS0	5E	ANALOG LINES	6,144	4,729
WASHUTMARS1	RSM	ANALOG LINES	6,273	4,753
LAPIOR52DS0	DMS10	ANALOG LINES	5,106	4,774
FONTCOMADS0	DMS10	ANALOG LINES	5,120	4,795
CHDRNENWDS0	DMS100	ANALOG LINES	5,748	4,823
BISBAZMARS1	RSC	ANALOG LINES	5,109	4,838
SPKNWA01DS0	DMS100	ANALOG LINES	6,952	4,841
MDRSOR52DS0	DMS10	ANALOG LINES	5,748	4,848
SMFDUTMARS1	RSC	ANALOG LINES	5,120	4,850
FRSRCOMADS0	DMS10	ANALOG LINES	5,096	4,854
RIFLCOMADS0	AXE	ANALOG LINES	5,888	4,855
RGRVOR55DS0	DMS10	ANALOG LINES	5,376	4,892
DRPKWA01DS0	DMS10	ANALOG LINES	5,758	4,956
SPKNWACHRS0	RSM	ANALOG LINES	5,632	4,975
NGLSAZMWDS0	5E	ANALOG LINES	8,192	4,993
WBCYIATCDS0	AXE	ANALOG LINES	6,016	5,012
WCBGAZMARS1	RSM	ANALOG LINES	6,400	5,017
HBCYUTMARS1	RSM	ANALOG LINES	5,858	5,043
CNBLIAMWRS3	RSC	ANALOG LINES	5,760	5,047
RCFDUTMADS0	DMS100	ANALOG LINES	6,390	5,114
MLTNOR56RS0	RSC	ANALOG LINES	5,741	5,122
FRUTCOMADS0	DMS10	ANALOG LINES	6,092	5,123
STRGSDCORS1	RSM	ANALOG LINES	5,760	5,157
DLTHMNAFRS7	ORM	ANALOG LINES	7,424	5,170
OTHEWA01DS0	DMS10	ANALOG LINES	5,741	5,173
VLCYNDBCRS8	RSC	ANALOG LINES	5,752	5,182
CHVYAZMARS1	RSM	ANALOG LINES	5,632	5,194
OGDNUT11RS1	RSC	ANALOG LINES	7,027	5,217
PHNXAZNODS1	5E	ANALOG LINES	11,008	5,217
TCSNAZWERS1	RSC	ANALOG LINES	5,760	5,220
POWLWYMARS1	AXRSS	ANALOG LINES	6,144	5,264

MDSNSDCERS1	RSM	ANALOG LINES	5,631	5,301
ATLTIATCDS0	AXE	ANALOG LINES	5,760	5,305
LXTNNENWRS1	RSC	ANALOG LINES	5,965	5,317
ELKHENWRSA	ORM	ANALOG LINES	6,144	5,375
BRNLNMMARSA	RSM	ANALOG LINES	7,753	5,423
SPLKIACODS0	DMS10	ANALOG LINES	6,400	5,446
LWTWMTMADS0	AXE	ANALOG LINES	6,144	5,482
VENTOR54DS0	DMS10	ANALOG LINES	6,400	5,482
CKTNMNCRRS2	RSC	ANALOG LINES	6,152	5,493
BUTTMT18RS1	ORM	ANALOG LINES	7,168	5,495
LKMTCOMADS0	DMS10	ANALOG LINES	6,387	5,498
LTFDMNLIRS6	RSC	ANALOG LINES	5,736	5,537
MORAMNMORS6	AXRSS	ANALOG LINES	6,016	5,614
SCRRNMMARS1	RSC	ANALOG LINES	6,382	5,623
AZTCNMBLRS1	RSM	ANALOG LINES	6,657	5,636
SALDCOMADS0	AXE	ANALOG LINES	6,912	5,641
STPRMNSPDS0	DMS100	ANALOG LINES	7,658	5,666
PYSNUTMARS1	RSC	ANALOG LINES	7,030	5,672
TCSNAZSWDS0	DMS100	ANALOG LINES	8,943	5,685
BOISIDNWRS1	AXRSS	ANALOG LINES	6,144	5,760
OMAHNEHADS0	5E	ANALOG LINES	18,431	5,769
TACMWAFlds0	5E	ANALOG LINES	16,896	5,785
ROCHWA01DS0	DMS10	ANALOG LINES	6,390	5,804
WNDSCOMARS1	AXRSS	ANALOG LINES	6,144	5,837
STHROR58DS0	DMS100	ANALOG LINES	6,409	5,839
MCCKNENWDS0	AXE	ANALOG LINES	6,528	5,848
SNMSCOMARS1	RSM	ANALOG LINES	6,656	5,873
SESDOR64DS0	DMS10	ANALOG LINES	6,980	5,896
NGLSAZMARS1	RSM	ANALOG LINES	6,656	5,934
FRTNUTMADS0	DMS100	ANALOG LINES	8,312	6,025
PRTNMNPRRS3	RSM	ANALOG LINES	6,656	6,034
CHCYIATCRS2	RSC	ANALOG LINES	6,619	6,036
OLYMWAEVRS0	RSM	ANALOG LINES	6,674	6,055
RWLNWYMADS0	DMS100	ANALOG LINES	7,680	6,060
CRNDAZMADS1	DMS100	ANALOG LINES	7,033	6,070
HALYIDMADS0	DMS10	ANALOG LINES	9,312	6,074
TJRSNMMARSA	RSM	ANALOG LINES	8,722	6,104
AZTCNM03RS1	RSM	ANALOG LINES	6,656	6,111
DLTHMNLARS5	ORM	ANALOG LINES	8,576	6,165
WTTWSDCODS1	AXE	ANALOG LINES	6,638	6,172
WASCMNWADS0	AXE	ANALOG LINES	7,168	6,208
ALNCNENWRS1	RSC	ANALOG LINES	7,021	6,229
CLVLWA01DS0	DMS10	ANALOG LINES	7,668	6,235
DELTCOMADS0	AXE	ANALOG LINES	6,656	6,259
AFTNMNAFRS4	RSM	ANALOG LINES	7,168	6,273
SMTNAZMARS1	RSC	ANALOG LINES	7,034	6,287
DNVRCOTCRS1	ORM	ANALOG LINES	8,192	6,329
BCKYAZMARS1	RSC	ANALOG LINES	7,032	6,355
TLRDCOMADS0	DMS10	ANALOG LINES	7,028	6,430
MLCYMTMADS0	AXE	ANALOG LINES	7,168	6,473
DCRHACODS0	DMS100	ANALOG LINES	6,948	6,516
LVTNMTMADS0	AXE	ANALOG LINES	7,808	6,521
SPRVOR02DS0	DMS10	ANALOG LINES	7,666	6,531
EMMTIDMADS0	AXE	ANALOG LINES	6,912	6,533
SXFLSDCODS0	AXE	ANALOG LINES	7,040	6,540
GRNTNMMADS0	5E	ANALOG LINES	7,681	6,541
BLFRWA01DS0	DMS10	ANALOG LINES	7,667	6,575
WNTNOR57DS0	DMS10	ANALOG LINES	7,681	6,588
TRNDCOMADS0	AXE	ANALOG LINES	7,552	6,623
JNCYOR51DS0	DMS10	ANALOG LINES	7,634	6,639

WVRLIACORS3	RSC	ANALOG LINES	7,019	6,670
PUBLCO06RS1	RSC	ANALOG LINES	7,672	6,703
GNSNCOMADS0	AXE	ANALOG LINES	7,296	6,719
LNDRWYMARS1	RSC	ANALOG LINES	7,680	6,754
CRAGCOMADS0	AXE	ANALOG LINES	7,294	6,777
EAGLIDNMRS1	RSM	ANALOG LINES	8,960	6,820
ALMSCOMADS0	DMS100	ANALOG LINES	8,960	6,848
GNRVWYMADS0	AXE	ANALOG LINES	8,192	6,861
CMBRMNCARS6	RSM	ANALOG LINES	7,680	6,893
PTLSNMMARS1	RSC	ANALOG LINES	7,668	6,897
OKGVMNOGRS7	RSM	ANALOG LINES	8,192	6,904
BAKROR23DS0	DMS10	ANALOG LINES	7,656	6,913
SRVSAZSORS1	RSC	ANALOG LINES	7,680	6,960
PKRPMNPRDS1	AXE	ANALOG LINES	7,424	6,980
HMTNMTMADS0	AXE	ANALOG LINES	8,192	6,988
BFLOMNBURS6	RSM	ANALOG LINES	7,680	7,016
MRSNCOMARS1	RSC	ANALOG LINES	7,680	7,068
WDPKCOMARS1	RSM	ANALOG LINES	8,713	7,121
LEHIUTMADS0	DMS100	ANALOG LINES	12,141	7,125
JERMIDNMDS0	DMS100	ANALOG LINES	7,668	7,223
TRFLMNTNRS6	RSC	ANALOG LINES	7,660	7,225
HAVRMTMADS0	AXE	ANALOG LINES	7,936	7,239
SPRFSDCORS1	RSM	ANALOG LINES	7,679	7,242
INDPOR58DS0	DMS10	ANALOG LINES	7,654	7,269
LTFLMNLFDS0	AXE	ANALOG LINES	7,936	7,303
CRRLIATCDS0	AXE	ANALOG LINES	7,936	7,307
DLTHMNCBRS6	ORM	ANALOG LINES	8,320	7,368
LTPKAZMARS1	RSM	ANALOG LINES	8,192	7,395
WJRDUTMARS3	RSM	ANALOG LINES	8,704	7,405
FLRNOR53DS0	DMS10	ANALOG LINES	8,295	7,412
ARTSNMMARS1	RSC	ANALOG LINES	8,308	7,567
EVTNWYMADS0	AXE	ANALOG LINES	8,448	7,575
PHNXAZ81DS0	5E	ANALOG LINES	8,704	7,586
NWPTOR35DS0	DMS10	ANALOG LINES	9,312	7,638
OMAKWA01DS0	DMS10	ANALOG LINES	8,939	7,773
FRTNUTMACG0	GENERIC	ANALOG LINES	10,240	7,787
CTWDAZMADS0	5E	ANALOG LINES	9,229	7,797
LSALNMADS0	5E	ANALOG LINES	19,971	7,820
DGLSAZMARS1	RSC	ANALOG LINES	8,320	7,822
FTMDIATCRS3	RSM	ANALOG LINES	8,704	7,836
CRDLCOMADS0	AXE	ANALOG LINES	8,192	7,843
WHTNNDBCRS6	RSM	ANALOG LINES	10,240	7,844
BLFTIDMADS0	AXE	ANALOG LINES	8,704	7,851
PHNXOR55DS0	DMS10	ANALOG LINES	9,260	7,861
STLKIATCDS0	DMS100	ANALOG LINES	8,931	7,890
KEKKIACORS5	RSM	ANALOG LINES	8,704	7,898
FTMRCOMADS0	AXE	ANALOG LINES	8,832	7,914
GLOBAZMARS1	RSC	ANALOG LINES	8,960	7,920
MTHOIDMADS0	AXE	ANALOG LINES	8,448	7,920
CNPNOR29DS0	DMS10	ANALOG LINES	8,934	7,949
PRVLOR53DS0	DMS10	ANALOG LINES	8,936	7,965
ONTRORXCDS0	5E	ANALOG LINES	8,960	8,085
JCSNWYMADS0	DMS100	ANALOG LINES	11,387	8,215
SSCYNEWDS0	DMS100	ANALOG LINES	8,946	8,286
BOISIDSWRS1	ORM	ANALOG LINES	8,704	8,329
CTGVOR53DS0	DMS10	ANALOG LINES	10,218	8,335
DTLKMNDLDS0	5E	ANALOG LINES	11,525	8,404
ASTROR64DS0	DMS100	ANALOG LINES	10,188	8,410
DVNPIANERS1	ORM	ANALOG LINES	9,216	8,419
DLLSOR58DS0	DMS10	ANALOG LINES	8,955	8,451

SPNCIATCDS0	DMS100	ANALOG LINES	9,569	8,479
VRMLSDCORS1	RSM	ANALOG LINES	10,240	8,508
GDYRAZCWDS0	DMS100	ANALOG LINES	9,909	8,513
CHNDAZSLRS1	ORM	ANALOG LINES	10,752	8,519
ALNAIACORS9	RSM	ANALOG LINES	9,728	8,536
OMAHNEFODS0	5E	ANALOG LINES	26,625	8,549
OSKLIACODS0	DMS10	ANALOG LINES	9,201	8,578
PYSNAZMADS0	5E	ANALOG LINES	9,254	8,590
BOONIACODS0	DMS100	ANALOG LINES	9,425	8,608
MNMTCOMADS0	5E	ANALOG LINES	11,776	8,663
CRTZCOMADS0	DMS100	ANALOG LINES	9,600	8,666
CLQTMNCARS8	RSM	ANALOG LINES	10,880	8,695
INDNIACODS0	DMS10	ANALOG LINES	9,456	8,714
DMNGNMMADS0	5E	ANALOG LINES	10,242	8,721
BELNNMMADS0	DMS100	ANALOG LINES	10,208	8,722
NRFDMMNODS0	DMS100	ANALOG LINES	10,210	8,738
YUMAAZFTDS1	DMS100	ANALOG LINES	15,178	8,759
PRICUTMADS0	DMS100	ANALOG LINES	10,248	8,831
RXBGIDMADS0	5E	ANALOG LINES	13,824	8,899
TCSNAZTVDS0	5E	ANALOG LINES	11,264	8,926
HURNSDCODS1	5E	ANALOG LINES	10,240	8,928
YNTNSDCODS1	5E	ANALOG LINES	10,240	8,994
CHHLWA01DS0	DMS10	ANALOG LINES	10,212	9,016
TAOSNMMADS0	5E	ANALOG LINES	10,248	9,016
CODYWYMADS0	AXE	ANALOG LINES	10,240	9,029
SPFKUTMARS1	RSC	ANALOG LINES	10,393	9,035
TLNSAZMARS1	RSM	ANALOG LINES	11,264	9,059
AVONCOMADS0	DMS100	ANALOG LINES	10,212	9,198
SPVLUTMADS0	DMS100	ANALOG LINES	10,874	9,239
AGFIAZSRDS0	5E	ANALOG LINES	13,824	9,253
SFFRAZMADS0	DMS100	ANALOG LINES	10,230	9,274
BLDRCOGBRS1	ORM	ANALOG LINES	14,327	9,287
SLCYNMMADS0	5E	ANALOG LINES	10,759	9,306
LSVGNMMADS0	5E	ANALOG LINES	11,272	9,322
STHNOR4ODS0	DMS10	ANALOG LINES	10,222	9,324
FRLKMNFLDS0	DMS100	ANALOG LINES	10,841	9,347
PIRRSDCODS6	5E	ANALOG LINES	13,312	9,381
MRSHMNMA53G	DMS100	ANALOG LINES	10,185	9,491
LSLNNMMADS0	DMS100	ANALOG LINES	14,058	9,609
BRLYIDMADS0	DMS100	ANALOG LINES	10,224	9,781
TOOLUTMADS0	5E	ANALOG LINES	13,184	9,940
MTCHSDCODS1	AXE	ANALOG LINES	11,008	9,941
ENMCWA01RS0	RSM	ANALOG LINES	10,752	9,944
BGCYUTMADS0	DMS100	ANALOG LINES	12,800	9,964
PRSCAZEARS2	RSM	ANALOG LINES	14,858	9,975
VRGNMNVDS0	AXE	ANALOG LINES	11,008	10,056
RDWNNNRWDS0	DMS100	ANALOG LINES	11,492	10,089
RVTNWYMADS0	DMS100	ANALOG LINES	12,800	10,106
BALYCOMADS0	DMS10	ANALOG LINES	11,507	10,167
PRVYAZPPDS0	5E	ANALOG LINES	12,806	10,185
FRFLMNF73G	DMS100	ANALOG LINES	11,505	10,188
VRNLUTMADS0	DMS100	ANALOG LINES	11,502	10,202
BRRGCOMADS0	DMS100	ANALOG LINES	12,800	10,240
MNDNDBADS0	DMS100	ANALOG LINES	11,502	10,251
STNGCOMADS0	AXE	ANALOG LINES	11,648	10,257
COLBWA01DS0	DMS10	ANALOG LINES	11,514	10,268
JMTWNDBC25G	DMS100	ANALOG LINES	11,315	10,303
GLSPCOMADS0	DMS100	ANALOG LINES	12,159	10,464
WLSTNDBC57C	1A	ANALOG LINES	14,249	10,470
SEDNAZMADS0	5E	ANALOG LINES	12,160	10,502

RDMDOR01DS0	DMS100	ANALOG LINES	13,420	10,523
SLKCUTMADS0	DMS100	ANALOG LINES	13,282	10,529
BTLGWA01DS0	DMS10	ANALOG LINES	10,866	10,544
CVCKAZMADS0	5E	ANALOG LINES	13,312	10,562
EKRVMNERDS0	DMS100	ANALOG LINES	12,765	10,672
DNVRCOCHCG1	1A	ANALOG LINES	30,361	10,673
HBNGMNHIDS0	AXE	ANALOG LINES	12,032	10,730
HMTNOR56DS0	DMS100	ANALOG LINES	12,752	10,741
CHNDAZSODS0	5E	ANALOG LINES	12,160	10,824
SPKNWAMORS1	ORM	ANALOG LINES	12,798	10,937
GRELCOJCDS0	AXE	ANALOG LINES	11,904	10,969
SDVLMNSORS1	ORM	ANALOG LINES	12,288	10,979
WDBNOR59DS0	5E	ANALOG LINES	12,288	11,272
MAGNUTNMRS0	ORM	ANALOG LINES	12,288	11,355
KTCHIDMADS0	AXE	ANALOG LINES	12,288	11,382
OGDNUTNODS0	DMS100	ANALOG LINES	12,808	11,426
BITNCOMADS0	5E	ANALOG LINES	13,828	11,503
LSCRNMTSDS0	5E	ANALOG LINES	14,336	11,569
VAILCOMADS0	DMS100	ANALOG LINES	14,017	11,623
CFTNCONMDS0	DMS100	ANALOG LINES	14,080	11,646
AMFKUTMADS0	DMS100	ANALOG LINES	12,785	11,671
AMESIAWSDS0	DMS100	ANALOG LINES	12,749	11,679
GLLPNMADS0	DMS100	ANALOG LINES	13,991	11,813
DCSNND22E	1A	ANALOG LINES	14,281	11,913
MPLSMNFS72G	DMS100	ANALOG LINES	15,721	11,982
PCTLDNODS0	AXE	ANALOG LINES	12,416	12,041
SEQMWA01DS1	DMS100	ANALOG LINES	14,084	12,105
CENLWA01DS0	DMS10	ANALOG LINES	14,080	12,175
PLGVUTMADS0	DMS100	ANALOG LINES	13,430	12,179
GDRPMNGRDS0	AXE	ANALOG LINES	13,312	12,233
PRKRCOMARS1	ORM	ANALOG LINES	13,824	12,262
PNTNOR56DS0	DMS100	ANALOG LINES	14,003	12,366
WLMRMNWIDS0	DMS100	ANALOG LINES	13,385	12,376
GNVYAZMADS0	DMS100	ANALOG LINES	15,360	12,420
ALLEMNALDS0	DMS100	ANALOG LINES	15,648	12,422
SXFLSDSWRS1	RSM	ANALOG LINES	13,312	12,435
CENLWA01DS1	DMS100	ANALOG LINES	14,058	12,468
BUTTMT09DS0	5E	ANALOG LINES	15,360	12,580
DLLNCOMADS0	DMS100	ANALOG LINES	14,080	12,597
TACMWAWADS0	5E	ANALOG LINES	14,848	12,659
GRHMWAGRDS0	5E	ANALOG LINES	15,878	12,752
CSRKCONMDS0	5E	ANALOG LINES	15,871	12,815
SXCYIAMS0	DMS100	ANALOG LINES	14,373	12,913
PHNXAZBWDS0	5E	ANALOG LINES	17,408	12,944
SHKPMNSHRS1	ORM	ANALOG LINES	16,384	13,041
FRBLMNFADS0	AXE	ANALOG LINES	14,592	13,190
CACYCOMADS0	AXE	ANALOG LINES	14,720	13,232
FTMDAZMADS0	5E	ANALOG LINES	15,360	13,243
BYLKWA01RS0	ORM	ANALOG LINES	14,336	13,348
BMDJMNBE75G	DMS100	ANALOG LINES	14,698	13,381
FLGSAZEADS0	5E	ANALOG LINES	16,000	13,457
OMAHNECEDS0	5E	ANALOG LINES	33,281	13,473
CDCYUTMADS0	DMS100	ANALOG LINES	16,618	13,481
CDRRIAWS0	DMS100	ANALOG LINES	15,336	13,504
BLTNMNCE85E	1A	ANALOG LINES	21,330	13,587
WTTWSDCODS0	5E	ANALOG LINES	14,848	13,666
ORCHWA01DS0	5E	ANALOG LINES	15,872	13,675
SHRDWYMADS0	AXE	ANALOG LINES	16,384	13,696
MPVYWAMVRS0	ORM	ANALOG LINES	16,384	13,773
TCSNAZCODS0	5E	ANALOG LINES	16,384	13,821

OGDNUTSODS0	DMS100	ANALOG LINES	16,016	13,835
DURNCOMADS0	DMS100	ANALOG LINES	16,000	13,870
MSLKWA01DS0	DMS100	ANALOG LINES	16,000	13,975
SHTNWA01DS0	5E	ANALOG LINES	18,959	14,099
WFRGNDBC28G	DMS100	ANALOG LINES	17,213	14,284
OWTNMNOW45G	5E	ANALOG LINES	15,874	14,313
STTLWA06DS0	DMS100	ANALOG LINES	17,555	14,316
CSGRAZMADS0	DMS100	ANALOG LINES	17,280	14,343
MPLSMNPEDS1	5E	ANALOG LINES	15,872	14,370
LTTNCOHLD0	DMS100	ANALOG LINES	19,170	14,439
BNISWA01DS0	5E	ANALOG LINES	18,432	14,557
RCSPWYMADS0	AXE	ANALOG LINES	15,360	14,588
MTRSCOMADS0	DMS100	ANALOG LINES	16,619	14,736
STWRMNSTDS0	DMS100	ANALOG LINES	17,217	14,774
AUSTMNAB43G	5E	ANALOG LINES	16,896	14,821
STGRUTMADS0	5E	ANALOG LINES	24,576	14,856
MRDNIDMADS0	5E	ANALOG LINES	16,896	14,885
STSPCOMADS0	AXE	ANALOG LINES	16,000	14,908
ASLDOR55DS0	DMS100	ANALOG LINES	16,581	15,221
RVTNUTMADS0	5E	ANALOG LINES	17,664	15,357
MRISWA01DS0	5E	ANALOG LINES	15,872	15,465
EXCLMNEX47G	5E	ANALOG LINES	16,896	15,664
PHNXAZPPDS0	5E	ANALOG LINES	17,919	15,782
PTORWAFEDS0	5E	ANALOG LINES	18,944	15,883
ALBQNMSWDS0	DMS100	ANALOG LINES	18,529	15,912
PTLDOR69DS0	DMS100	ANALOG LINES	23,453	15,943
ALBQNMRRDS0	DMS100	ANALOG LINES	21,714	15,952
EVRGCOMARS1	ORM	ANALOG LINES	16,383	15,962
NRFLNENWCG0	1A	ANALOG LINES	18,102	16,102
CLTNIACODS0	DMS100	ANALOG LINES	17,866	16,124
CLVSNMMADS0	DMS100	ANALOG LINES	20,941	16,203
MRTWIASO75X	1A	ANALOG LINES	18,352	16,223
ASPECOMADS0	5E	ANALOG LINES	17,408	16,224
ALMGNMMADS0	5E	ANALOG LINES	19,456	16,230
MSCTIACODS0	DMS100	ANALOG LINES	17,813	16,305
PRCYUTMADS0	5E	ANALOG LINES	20,481	16,305
ANKNIACODS0	DMS100	ANALOG LINES	17,213	16,385
BRNRMNBRDS0	DMS100	ANALOG LINES	18,327	16,494
OTTMATCDS0	DMS100	ANALOG LINES	17,892	16,497
AMESIATCDS0	DMS100	ANALOG LINES	17,862	16,566
NPLTNENWDS0	DMS100	ANALOG LINES	17,870	16,615
STTLWA06CG3	1A	ANALOG LINES	30,476	16,808
FRMTNENWDS0	DMS100	ANALOG LINES	18,432	16,921
GLTTWYMADS0	DMS100	ANALOG LINES	17,919	17,016
YUMAAZSEDS0	DMS100	ANALOG LINES	24,300	17,098
CDRRIAMNDS0	DMS100	ANALOG LINES	19,170	17,140
YAKMWAWEDS0	DMS100	ANALOG LINES	20,420	17,476
LARMWYNMDS0	DMS100	ANALOG LINES	21,767	17,550
DVNPIAEADS0	5E	ANALOG LINES	18,944	17,643
ABRSDCO22E	1A	ANALOG LINES	20,409	17,797
CLSPCOSMDS0	DMS100	ANALOG LINES	25,252	17,859
DESMIASODS0	5E	ANALOG LINES	19,968	17,964
CTGVMNCG45G	5E	ANALOG LINES	22,016	17,970
OMAHNE78DS0	5E	ANALOG LINES	26,624	17,998
MSCYIATCDS0	DMS100	ANALOG LINES	20,448	18,209
FRDLMNFRDS0	5E	ANALOG LINES	20,480	18,479
CDFLIACODS0	DMS100	ANALOG LINES	20,410	18,485
DNVRCOMBDS0	5E	ANALOG LINES	23,040	18,813
WINOMNWI45G	DMS100	ANALOG LINES	20,420	18,966
BLNGMTWEDS0	5E	ANALOG LINES	24,064	19,034

ABRDWA01DS0	DMS100	ANALOG LINES	24,260	19,253
SCDLAZSHDS0	5E	ANALOG LINES	20,996	19,269
DNVRCOCWDS0	5E	ANALOG LINES	20,997	19,271
SRVSAZMADS0	DMS100	ANALOG LINES	23,005	19,292
MPWDMNMA73E	1A	ANALOG LINES	32,535	19,368
PTANWA01DS0	DMS100	ANALOG LINES	21,046	19,436
PUBLICOSUDS0	DMS100	ANALOG LINES	22,329	19,512
PTLDOR08DS0	5E	ANALOG LINES	23,553	19,730
CLWLIDMACG0	1A	ANALOG LINES	24,567	19,800
BURLIATCDS0	5E	ANALOG LINES	22,016	19,915
DESMWA01DS0	5E	ANALOG LINES	22,528	20,178
HLNAMTMADS0	5E	ANALOG LINES	25,600	20,230
PASCWA0154C	1A	ANALOG LINES	24,559	20,313
CDRRIANODS0	DMS100	ANALOG LINES	22,315	20,330
PTLDOR02DS0	5E	ANALOG LINES	22,017	20,547
KENTWAOBDS0	5E	ANALOG LINES	24,321	20,687
BZMNMTMADS0	5E	ANALOG LINES	25,628	20,913
BRDSAZMADS0	5E	ANALOG LINES	23,552	21,039
ALBQNMWEDS0	5E	ANALOG LINES	25,600	21,074
SALMOR59DS0	5E	ANALOG LINES	22,531	21,104
SLDLWASIDS0	5E	ANALOG LINES	31,293	21,131
SPRSAZEADS0	DMS100	ANALOG LINES	25,598	21,199
STTLWAE LDS0	5E	ANALOG LINES	25,472	21,288
ALBQNMNODS0	5E	ANALOG LINES	24,590	21,364
SNFENMSWDS0	5E	ANALOG LINES	24,576	21,386
MPLSMNDT62G	5E	ANALOG LINES	32,131	21,419
SCRTCOMACG0	1A	ANALOG LINES	24,479	21,553
PHNXAZSECG0	1A	ANALOG LINES	22,377	21,756
FLGSAZMADS0	5E	ANALOG LINES	24,575	21,783
OMAHNEBEDS0	5E	ANALOG LINES	24,576	21,886
STPLMNH48E	1A	ANALOG LINES	24,479	22,008
TWFLIDMADS0	DMS100	ANALOG LINES	24,233	22,596
ISQHWAEXDS0	5E	ANALOG LINES	27,136	22,725
DVNPIANWDS0	5E	ANALOG LINES	24,063	22,853
EDPRMNGPDS0	5E	ANALOG LINES	27,648	23,005
KYVLUTMADS0	5E	ANALOG LINES	29,951	23,240
TEMACOMACG0	1A	ANALOG LINES	30,637	23,404
SPKNWAWHDS0	5E	ANALOG LINES	26,120	23,448
KENTWAMEDS0	5E	ANALOG LINES	30,464	23,456
SMNRWA01DS1	5E	ANALOG LINES	26,112	23,572
RSBGOR57CG0	1A	ANALOG LINES	30,644	23,633
PCTLIDMADS1	DMS100	ANALOG LINES	27,428	23,649
GLDNCOMADS0	DMS100	ANALOG LINES	27,342	23,770
FRTNNMMADS0	5E	ANALOG LINES	27,136	23,828
CHNDAZWEDS0	5E	ANALOG LINES	28,162	23,904
TCSNAZCADS0	DMS100	ANALOG LINES	28,800	24,389
RCFDMN66DS0	5E	ANALOG LINES	28,160	24,581
OMAHNEFWDS0	5E	ANALOG LINES	35,840	24,632
WLWLWA01DS0	DMS100	ANALOG LINES	27,887	24,715
SPKNWAKYCG0	1A	ANALOG LINES	32,766	24,883
VANCWANODS0	5E	ANALOG LINES	28,164	24,910
MPLSMNFR87E	1A	ANALOG LINES	32,603	25,148
OMAHNEOSDS0	5E	ANALOG LINES	27,648	25,162
RSWLNMADS0	DMS100	ANALOG LINES	29,370	25,319
STPLMNEMDS0	5E	ANALOG LINES	28,670	25,327
DLTHMNME72G	5E	ANALOG LINES	31,232	25,444
TACMWASY75A	1A	ANALOG LINES	30,640	25,532
ALBQNMCRDS0	DMS100	ANALOG LINES	30,010	25,638
LOGNUTMADS0	DMS100	ANALOG LINES	28,118	25,787
TEMPAZMCDS0	5E	ANALOG LINES	27,648	25,931

WBLKMNWBDS0	5E	ANALOG LINES	28,160	25,956
TACMWALODS0	5E	ANALOG LINES	29,186	26,111
WYZTMNWADS0	5E	ANALOG LINES	28,159	26,151
YUMAAZMADS0	DMS100	ANALOG LINES	32,004	26,175
EUGNOR28DS0	DMS100	ANALOG LINES	29,391	26,562
BRCTMNBC56G	DMS100	ANALOG LINES	31,898	26,628
DNVRCOCHCG0	1A	ANALOG LINES	32,533	26,638
ENWDCOABDS0	5E	ANALOG LINES	29,554	26,726
SPKNWAHDCG0	1A	ANALOG LINES	34,816	26,751
LKOSOR62DS0	5E	ANALOG LINES	30,208	26,966
DRVYAZNODS0	5E	ANALOG LINES	31,734	27,196
STTLWADUCG0	1A	ANALOG LINES	34,492	27,247
ALBYOR63CG0	1A	ANALOG LINES	28,528	27,249
PHNXAZSOCG0	1A	ANALOG LINES	32,768	27,249
GDISNENWDS0	DMS100	ANALOG LINES	30,580	27,336
DRPRUTMADS0	5E	ANALOG LINES	36,353	27,378
MPLSMN0737E	1A	ANALOG LINES	40,802	27,474
PLMOMNFE55E	1A	ANALOG LINES	30,583	27,566
KLFOR54CG0	1A	ANALOG LINES	30,643	27,784
NMPAIDMACG0	1A	ANALOG LINES	28,552	28,265
FTCLCOHMDS0	5E	ANALOG LINES	30,503	28,330
DVNPIADT32X	1A	ANALOG LINES	32,641	28,359
FDWYWAO1DS0	5E	ANALOG LINES	31,232	28,480
CNRPMNNDSD0	5E	ANALOG LINES	32,262	28,577
BRVLMNBU89G	DMS100	ANALOG LINES	31,959	28,616
SLKCUTEADS0	DMS100	ANALOG LINES	33,491	28,651
STPLMNMKRS0	ORM	ANALOG LINES	31,232	29,334
STPLMNMK29G	5E	ANALOG LINES	39,552	29,358
CTWDUTMACG0	1A	ANALOG LINES	32,757	29,372
MPLSMNGE78E	1A	ANALOG LINES	32,595	29,448
STTLWAPADS0	5E	ANALOG LINES	32,768	29,794
PRSCAZMADS0	5E	ANALOG LINES	32,814	30,009
MPWDMNMADS0	5E	ANALOG LINES	34,304	30,014
DNVRCONECG0	1A	ANALOG LINES	36,709	30,179
LVLDCOMADS0	5E	ANALOG LINES	34,547	30,278
GDFRNDDBC77G	DMS100	ANALOG LINES	35,339	30,792
NSPLMNPRDS0	5E	ANALOG LINES	34,304	30,887
SLKCUTWECG0	1A	ANALOG LINES	36,858	31,216
BLTNMNO83E	1A	ANALOG LINES	40,768	31,309
CNBLIAWACG0	1A	ANALOG LINES	34,669	31,369
ENWDCOMACG0	1A	ANALOG LINES	36,647	31,674
LSCRNMADS0	5E	ANALOG LINES	39,475	31,684
LSTNIDSHCG0	1A	ANALOG LINES	36,860	31,856
MSSLMTMADS0	5E	ANALOG LINES	38,784	31,901
BLTNMNSODS0	5E	ANALOG LINES	35,840	31,940
SPRSAZMACG0	1A	ANALOG LINES	36,864	32,310
CHNDAZMADS0	5E	ANALOG LINES	38,504	32,342
TCSNAZSOCG0	1A	ANALOG LINES	42,815	32,390
HLDYUTMADS0	DMS100	ANALOG LINES	34,564	32,437
MPLSMNBB52E	1A	ANALOG LINES	36,648	32,487
DESMIAWSCG0	1A	ANALOG LINES	36,720	32,543
ANOKMNANDS0	5E	ANALOG LINES	36,864	32,753
GRELCOMADS0	5E	ANALOG LINES	35,940	32,895
DESMIAEADS0	5E	ANALOG LINES	34,816	33,046
ALBQNMACCG0	1A	ANALOG LINES	36,851	33,447
NWBTMNCL63E	1A	ANALOG LINES	38,690	33,600
STPLMNBEDS0	5E	ANALOG LINES	38,912	33,619
SPKNWAFADS0	5E	ANALOG LINES	38,401	33,719
EDPRMNEP94G	5E	ANALOG LINES	39,162	33,841
CRVSOR65CG0	1A	ANALOG LINES	36,743	33,888

CRYSMNCRDS0	5E	ANALOG LINES	37,887	34,045
TCSNAZFWDS0	DMS100	ANALOG LINES	39,685	34,125
PHNXAZEADS0	5E	ANALOG LINES	39,883	34,266
SXCYIADTDS1	DMS100	ANALOG LINES	36,397	34,294
MPLSMNTF72E	1A	ANALOG LINES	40,766	34,465
MESAAZGIDS0	5E	ANALOG LINES	45,568	34,955
KENTWA01DS0	5E	ANALOG LINES	41,471	35,422
AUBNWA01DS0	5E	ANALOG LINES	39,424	35,801
GRPSOR29CG0	1A	ANALOG LINES	42,915	35,828
OMAHNEIZDS0	5E	ANALOG LINES	43,008	35,835
STTLWA06DS6	DMS100	ANALOG LINES	57,038	35,891
WSPLMNWSDS0	5E	ANALOG LINES	40,448	35,932
DESMIANWCG0	1A	ANALOG LINES	42,920	36,388
LACYWA01DS0	5E	ANALOG LINES	41,484	37,401
DESMIAAWDS0	5E	ANALOG LINES	41,471	37,426
STTLWACADS0	5E	ANALOG LINES	47,616	37,439
BNTFUTMACG0	1A	ANALOG LINES	40,938	37,612
TACMWAGFDS0	5E	ANALOG LINES	42,496	37,719
OMAHNE84DS0	DMS100	ANALOG LINES	43,818	37,737
TACMWAFADS0	5E	ANALOG LINES	45,056	37,918
BSMRNDBCDS0	DMS100	ANALOG LINES	42,174	37,974
BLNGMTMADS1	5E	ANALOG LINES	49,142	37,996
PHNXAZMYCG0	1A	ANALOG LINES	40,770	38,416
GRFLMTMADS0	5E	ANALOG LINES	43,008	38,424
OMAHNE90CG0	1A	ANALOG LINES	44,846	38,536
CLFDUTMACG0	1A	ANALOG LINES	40,789	38,623
PTLDOR69DS2	5E	ANALOG LINES	58,494	38,651
STTLWAWWE93A	1A	ANALOG LINES	40,774	38,813
SHVWMNRIDS0	5E	ANALOG LINES	43,520	38,855
SNFENMMADS0	5E	ANALOG LINES	56,324	38,956
MLWKOR17DS0	5E	ANALOG LINES	45,056	38,981
TACMWALECG0	1A	ANALOG LINES	49,041	39,114
LGVVWA02CG0	1A	ANALOG LINES	42,904	39,295
DUBQIATCCG0	1A	ANALOG LINES	44,912	39,349
SPFDOR01CG0	1A	ANALOG LINES	42,814	39,385
TCSNAZCRCG0	1A	ANALOG LINES	48,942	39,426
TACMWAJUDS0	5E	ANALOG LINES	45,559	39,436
TCSNAZNOCG0	1A	ANALOG LINES	42,999	39,788
BLANMNBLRS1	RSM	ANALOG LINES	40,960	39,852
PHNXAZWECG0	1A	ANALOG LINES	44,858	40,033
SPKNWA01DS1	5E	ANALOG LINES	45,051	40,243
MPLSMNPI82E	1A	ANALOG LINES	44,786	40,252
DNVRCONOCG0	1A	ANALOG LINES	44,819	40,294
CSPRWYMADS0	5E	ANALOG LINES	44,417	40,334
PTLDOR14CG0	1A	ANALOG LINES	44,899	40,350
PHNXAZPRCG0	1A	ANALOG LINES	49,147	40,461
PTLDOR18CG0	1A	ANALOG LINES	44,905	40,484
PROVUTMADS0	DMS100	ANALOG LINES	47,854	40,489
TACMWAWVDS0	5E	ANALOG LINES	44,033	40,531
RPCYSDCODS1	5E	ANALOG LINES	44,160	40,566
ORCYOR18CG0	1A	ANALOG LINES	44,917	40,870
OREMUTMADS0	DMS100	ANALOG LINES	46,083	40,895
BMTNWA01CG0	1A	ANALOG LINES	47,091	41,126
CHYNWYMADS0	5E	ANALOG LINES	45,568	41,137
HPKNMNHODS0	5E	ANALOG LINES	45,312	41,776
BLHMWA01DS0	5E	ANALOG LINES	49,166	41,785
BENDOR24DS0	DMS100	ANALOG LINES	44,734	41,902
PUBLCOMADS0	DMS100	ANALOG LINES	46,717	42,051
PTLDOR17CG0	1A	ANALOG LINES	44,909	42,255
WTRLIADT23X	1A	ANALOG LINES	48,960	42,959

IDFLIDMACG0	1A	ANALOG LINES	44,935	42,971
ALBQNMEACG0	1A	ANALOG LINES	55,081	43,652
OGDNUTMADS0	DMS100	ANALOG LINES	48,640	43,686
DNVRCOWSDS0	DMS100	ANALOG LINES	49,919	43,717
STTLWA06DS4	5E	ANALOG LINES	58,852	43,960
LNMTCOMACG0	1A	ANALOG LINES	44,869	43,971
BRFDCOMADS0	DMS100	ANALOG LINES	48,580	44,039
WMNSCOMADS0	5E	ANALOG LINES	56,315	44,331
STPLMNMIDS0	5E	ANALOG LINES	51,912	44,443
EAGNMNLB45G	DMS100	ANALOG LINES	49,394	44,518
PYLPWA01CG0	1A	ANALOG LINES	55,168	45,305
ALBQNMADS2	5E	ANALOG LINES	56,448	45,328
IWCYIATCDS0	5E	ANALOG LINES	48,128	46,149
LKWDCOMADS0	5E	ANALOG LINES	64,247	46,220
STTLWASUDS0	5E	ANALOG LINES	51,712	47,277
GDJTCOMADS0	DMS100	ANALOG LINES	49,920	47,285
STCDMNT025G	DMS100	ANALOG LINES	52,480	47,307
OMAHNENWDS1	5E	ANALOG LINES	55,680	47,466
DESMIADTDS1	5E	ANALOG LINES	61,824	47,782
DNVRCOCPDS0	5E	ANALOG LINES	55,296	48,096
MDFDOR33CG0	1A	ANALOG LINES	53,071	48,148
BLLVWAGLDS0	5E	ANALOG LINES	56,817	48,845
PTLDOR69DS1	5E	ANALOG LINES	71,166	48,913
CLSPCOEADS0	5E	ANALOG LINES	57,336	49,031
YAKMWA02CG0	1A	ANALOG LINES	53,247	49,141
STTLWA05CG0	1A	ANALOG LINES	55,296	49,142
STPLMNMKDS4	5E	ANALOG LINES	57,216	49,160
STTLWA05DS0	DMS100	ANALOG LINES	58,871	49,191
BOISIDWECG0	1A	ANALOG LINES	53,055	49,650
LTTNCOMACG0	1A	ANALOG LINES	52,967	49,894
VANCWA01DS0	5E	ANALOG LINES	54,783	50,150
DNVRCOSOCG0	1A	ANALOG LINES	52,924	50,242
GLVYMNORDS0	DMS100	ANALOG LINES	54,221	50,676
MDVAUTMACG0	1A	ANALOG LINES	57,025	50,733
OLYMWA02DS0	5E	ANALOG LINES	61,464	50,811
CDRRIADTDS0	DMS100	ANALOG LINES	54,947	51,006
DNVRCOSECG0	1A	ANALOG LINES	61,162	51,852
PHNXAZMRCG0	1A	ANALOG LINES	59,392	52,119
NGLNCOMACG0	1A	ANALOG LINES	57,062	52,753
FTCLCOMACG0	1A	ANALOG LINES	65,219	53,591
CLSPCOPVDS0	5E	ANALOG LINES	56,320	53,887
TEMPAZMCCG0	1A	ANALOG LINES	57,110	54,140
DNVRCOSHCG0	1A	ANALOG LINES	57,095	54,688
STTLWALADS0	5E	ANALOG LINES	57,343	54,859
GLDLAZMACG0	1A	ANALOG LINES	65,281	55,049
DNVRCOCLCG0	1A	ANALOG LINES	57,062	55,312
SPKNWAWA92C	1A	ANALOG LINES	61,436	56,365
PTLDOR12DS0	DMS100	ANALOG LINES	67,660	56,703
PHNXAZNWCG0	1A	ANALOG LINES	65,535	56,831
AURRCOMADS0	5E	ANALOG LINES	85,256	57,485
SXFLSDCO33A	1A	ANALOG LINES	61,214	57,505
MPLSMNBE92E	1A	ANALOG LINES	61,176	57,743
ORCHWA01CG0	1A	ANALOG LINES	65,536	57,830
PTLDOR11DS0	5E	ANALOG LINES	65,530	58,436
DNVRCOMADS0	5E	ANALOG LINES	61,439	58,479
ROCHMNR0DS0	5E	ANALOG LINES	65,536	58,832
STTLWA04CG0	1A	ANALOG LINES	61,208	60,432
SLK CUTS0DS0	5E	ANALOG LINES	67,072	60,683
PHNXAZMADS4	5E	ANALOG LINES	77,748	60,953
KRNSUTMACG0	1A	ANALOG LINES	65,535	61,382

BLDRCOMADS0	5E	ANALOG LINES	73,730	61,501	
PTLDOR13DS3	5E	ANALOG LINES	68,608	61,526	
TEMPAZMADS0	DMS100	ANALOG LINES	66,539	61,939	
BLLVWASHCG0	1A	ANALOG LINES	65,502	62,202	
MRRYUTMADS0	5E	ANALOG LINES	73,984	62,628	
DNVRCOSWCG0	1A	ANALOG LINES	65,313	62,785	
TCSNAZEACG0	1A	ANALOG LINES	73,728	63,023	
MPLSMNDTDS7	5E	ANALOG LINES	80,078	63,782	
STTLWACH43A	1A	ANALOG LINES	68,175	64,579	
TCSNAZEADS0	5E	ANALOG LINES	68,608	65,802	
ALBQNMNEDS0	5E	ANALOG LINES	80,639	66,020	
TCSNAZMADS1	5E	ANALOG LINES	79,039	66,611	
SCDLAZTHDS0	5E	ANALOG LINES	77,824	69,003	
PHNXAZNEDS0	5E	ANALOG LINES	78,333	69,118	
TCSNAZRNCG0	1A	ANALOG LINES	79,676	69,541	
FARGNDBC23G	5E	ANALOG LINES	74,240	70,968	
PHNXAZCADS0	5E	ANALOG LINES	81,922	71,488	
RNTNWA01DS0	5E	ANALOG LINES	77,408	71,687	
BOISIDMADS3	5E	ANALOG LINES	83,026	72,780	
SCDLAZMADS0	5E	ANALOG LINES	80,878	74,863	
SPRSAZWEDS0	DMS100	ANALOG LINES	84,119	76,568	
DNVRCODCDS0	5E	ANALOG LINES	93,308	76,623	
SLKCUTMADS1	DMS100	ANALOG LINES	101,779	79,351	
EUGNOR53DS1	5E	ANALOG LINES	91,648	81,727	
CLSPCOMADS0	5E	ANALOG LINES	92,641	81,788	
DNVRCOSLDS0	5E	ANALOG LINES	103,168	82,506	
ARVDCOMACG0	1A	ANALOG LINES	90,112	83,385	
ARVDCOMADS0	DMS100	ANALOG LINES	96,146	83,661	
DNVRCOEADS0	5E	ANALOG LINES	87,498	86,238	
PHNXAZGRDS0	5E	ANALOG LINES	96,971	87,234	
SALMOR58DS0	5E	ANALOG LINES	95,231	88,645	
PHNXAZNODS3	5E	ANALOG LINES	106,033	89,065	
MESAAZMADS0	5E	ANALOG LINES	106,445	95,489	
		ANALOG LINES	Total	18,587,148	15,538,842
					0.84

OFFICES WITH WORKING DIGITAL LINES:

YUMAAZFTDS1	DMS100	DIGITAL LINES	4	4	
ALLEMNALDS0	DMS100	DIGITAL LINES	96	8	
SHLYIDMARS1	AXRSS	DIGITAL LINES	192	14	
CLTNIACODS0	DMS100	DIGITAL LINES	96	17	
MNHTMTMARS1	RSM	DIGITAL LINES	96	17	
SNFENMNORS1	RSM	DIGITAL LINES	96	19	
BRNMMNBARS3	RSM	DIGITAL LINES	96	20	
CSLTNDBCRS3	RSM	DIGITAL LINES	576	21	
QUSTNMMARS1	RSM	DIGITAL LINES	572	22	
SPVLUTMADS0	DMS100	DIGITAL LINES	384	22	
OGDNUTSODS0	DMS100	DIGITAL LINES	192	23	
STPLMNMKDS4	5E	DIGITAL LINES	1,539	27	
SCRRNMMARS1	RSC	DIGITAL LINES	96	31	
CHNDAZSLRS1	ORM	DIGITAL LINES	118	32	
CLHNCOMARS1	RSM	DIGITAL LINES	96	39	
SPDLUTMARS1	RSM	DIGITAL LINES	960	44	
CHNDAZRSRS1	ORM	DIGITAL LINES	150	45	
HNCKMNHIRS3	AXRSS	DIGITAL LINES	192	46	
MAGNUTNMRS0	ORM	DIGITAL LINES	768	47	
LTTNCOMADS0	5E	DIGITAL LINES	16,384	48	
SPFKUTMARS1	RSC	DIGITAL LINES	72	52	
CSCDMTMARS1	RSM	DIGITAL LINES	576	54	
CMRNNMMARS1	RSM	DIGITAL LINES	288	56	
BELNNMMADS0	DMS100	DIGITAL LINES	96	58	

CENLWA01DS0	DMS10	DIGITAL LINES	1,632	63
VRMLSDCORS1	RSM	DIGITAL LINES	192	63
SXFLSDSERS1	RSM	DIGITAL LINES	480	65
SRVSAZMADS0	DMS100	DIGITAL LINES	3,232	66
STCHMNSCR9	RSM	DIGITAL LINES	792	67
TACMWAFADS0	5E	DIGITAL LINES	96	69
FTMDAZNORS1	RSM	DIGITAL LINES	96	71
AURRCOMBRS1	ORM	DIGITAL LINES	2,880	72
ERIECOMARS1	RSM	DIGITAL LINES	6,144	74
MTPLIDMARS1	AXRSS	DIGITAL LINES	384	74
PNTNOR56DS0	DMS100	DIGITAL LINES	192	76
ALBQNMSWDS0	DMS100	DIGITAL LINES	288	78
DLTHMNDPRS6	ORM	DIGITAL LINES	288	79
GRBLWA01DS0	DMS10	DIGITAL LINES	192	81
ANMSIACORS4	AXRSS	DIGITAL LINES	96	82
CDRRIADTDS0	DMS100	DIGITAL LINES	384	82
CDRRIANODS1	AXE	DIGITAL LINES	96	84
LEDSUTMARS1	RSM	DIGITAL LINES	768	84
WNDLIDMARS1	AXRSS	DIGITAL LINES	288	85
MTNRNMMARS1	RSM	DIGITAL LINES	575	90
RATNNMMADS0	5E	DIGITAL LINES	576	92
CTWDAZEARS1	RSM	DIGITAL LINES	576	93
MNDNNDBADSO	DMS100	DIGITAL LINES	192	95
RIRIIDMARS1	AXRSS	DIGITAL LINES	288	95
BOISIDRCRS0	RSM	DIGITAL LINES	960	99
FKLNIDMARS1	AXRSS	DIGITAL LINES	192	112
RDRVNMMARS1	RSM	DIGITAL LINES	1,152	120
CENLWA01DS1	DMS100	DIGITAL LINES	1,632	125
AMSTMTMARS1	RSM	DIGITAL LINES	576	126
CDRRIANODS0	DMS100	DIGITAL LINES	384	128
OREMUTMADS0	DMS100	DIGITAL LINES	1,000	129
CTFDMNCHRS8	RSM	DIGITAL LINES	576	130
BRFDCOMADS0	DMS100	DIGITAL LINES	4,000	133
AMFLIDMARS1	AXRSS	DIGITAL LINES	512	134
PROVUTMADS0	DMS100	DIGITAL LINES	648	135
TOFTMNTBRS6	RSM	DIGITAL LINES	576	135
MRRYUTMADS0	5E	DIGITAL LINES	1,728	136
GRCNAZMARS1	RSM	DIGITAL LINES	576	137
PTANWA01DS0	DMS100	DIGITAL LINES	5,440	137
BLANMNBLRS1	RSM	DIGITAL LINES	4,480	140
GLVLMNGLRS4	RSM	DIGITAL LINES	192	141
SLKCUTEADS0	DMS100	DIGITAL LINES	768	142
AFACCOMADS0	DMS100	DIGITAL LINES	3,936	145
NPMOIDMARS1	AXRSS	DIGITAL LINES	288	146
PIRRSDCODS6	5E	DIGITAL LINES	384	146
WGTCOMARS1	RSM	DIGITAL LINES	1,152	148
BNISWA01DS0	5E	DIGITAL LINES	576	156
FRDLMNFRDS0	5E	DIGITAL LINES	4,384	156
HMBLAZMARS1	RSM	DIGITAL LINES	567	156
YRNLAZMARS1	RSM	DIGITAL LINES	576	156
ORSLORXCRS1	ORM	DIGITAL LINES	288	158
SPKNWACHRS0	RSM	DIGITAL LINES	1,728	158
NIWTCOMADS0	DMS10	DIGITAL LINES	288	159
SDSPIDMARS1	AXRSS	DIGITAL LINES	288	160
WESRIDMARS1	AXRSS	DIGITAL LINES	640	163
PNBLNMMARS1	RSM	DIGITAL LINES	576	165
BLFRSDCORS1	RSM	DIGITAL LINES	576	169
GDNGIDMARS1	AXRSS	DIGITAL LINES	384	169
GDRPMNGRDS0	AXE	DIGITAL LINES	1,248	169
SPKNWA01DS1	5E	DIGITAL LINES	1,920	171

BLTNMNNORSA	ORM	DIGITAL LINES	384	174
SPKNWAMORS1	ORM	DIGITAL LINES	1,920	174
THFKMTMARS1	RSM	DIGITAL LINES	384	174
PHNXAZNEDS0	5E	DIGITAL LINES	2,880	177
PNSCNMMARS1	RSM	DIGITAL LINES	565	177
SNMSCOMARS1	RSM	DIGITAL LINES	576	177
PINEAZMARS1	RSM	DIGITAL LINES	576	178
SPRSAZWEDS0	DMS100	DIGITAL LINES	4,128	182
SXCYIADTDS1	DMS100	DIGITAL LINES	1,920	186
SXFLSDSWRS1	RSM	DIGITAL LINES	576	186
MDTNIDMARS1	AXRSS	DIGITAL LINES	480	194
SEDNAZSORS3	RSM	DIGITAL LINES	1,152	199
BYRDNMMARS1	RSM	DIGITAL LINES	576	200
STPLMNBEDS0	5E	DIGITAL LINES	2,112	201
TNCKAZMARS1	RSM	DIGITAL LINES	1,152	205
CRTOMNCBRS3	ORM	DIGITAL LINES	576	208
TCSNAZFWDS0	DMS100	DIGITAL LINES	1,152	214
HDPTWA01RS1	RSM	DIGITAL LINES	1,728	227
PAGEAZMADS0	DMS10	DIGITAL LINES	384	227
CTGVMNCG45G	5E	DIGITAL LINES	864	234
PKRPMNPRDS1	AXE	DIGITAL LINES	288	237
WBCYIATCDS0	AXE	DIGITAL LINES	384	252
RCFRMNRORS4	ORM	DIGITAL LINES	576	260
AFTNMNAFRS4	RSM	DIGITAL LINES	576	264
ASTROR64DS0	DMS100	DIGITAL LINES	384	267
BSLTCOMADS0	DMS10	DIGITAL LINES	383	268
HATCNMMARS1	RSM	DIGITAL LINES	574	273
PRTNMNPRRS3	RSM	DIGITAL LINES	576	276
PSTNIDMARS1	AXRSS	DIGITAL LINES	480	278
GDMRMNGMDS0	5E	DIGITAL LINES	575	285
RGBYIDMARS1	AXRSS	DIGITAL LINES	384	286
JCSNWYMADS0	DMS100	DIGITAL LINES	15,208	288
TLRDCOMADS0	DMS10	DIGITAL LINES	574	294
MOLKMNMLRS4	RSM	DIGITAL LINES	576	302
NGLSAZ03RS2	RSM	DIGITAL LINES	576	305
FRTNNMWERS1	RSM	DIGITAL LINES	576	311
STGRUT11RS1	RSM	DIGITAL LINES	1,920	313
RANROR01DS0	DMS10	DIGITAL LINES	768	314
PNCYMNPCCDS0	AXE	DIGITAL LINES	480	329
GLGTMTMARS1	RSM	DIGITAL LINES	859	332
STPLMNEMDS0	5E	DIGITAL LINES	1,152	332
NPVNWAO1DS0	DMS10	DIGITAL LINES	576	339
MHNMMNMARS9	ORM	DIGITAL LINES	768	342
WLMRMNWIDS0	DMS100	DIGITAL LINES	800	344
BUTTMT18RS1	ORM	DIGITAL LINES	768	349
CLVROR01RS0	RSC	DIGITAL LINES	384	352
CMBRMNCARS6	RSM	DIGITAL LINES	1,536	352
STTLWAELDS0	5E	DIGITAL LINES	2,304	355
FRTHIDMARS1	AXRSS	DIGITAL LINES	384	360
WCBGAZMARS1	RSM	DIGITAL LINES	1,728	360
TACMWAWADS0	5E	DIGITAL LINES	2,304	362
CMVRAZMARS1	RSM	DIGITAL LINES	576	364
DLLSOR58DS0	DMS10	DIGITAL LINES	1,081	367
HAMLNMNBRS4	RSM	DIGITAL LINES	480	368
BAKROR23DS0	DMS10	DIGITAL LINES	672	381
PTLDOR13DS3	5E	DIGITAL LINES	5,088	387
ISNTMNISRS4	RSM	DIGITAL LINES	576	396
BFLOMNBURS6	RSM	DIGITAL LINES	1,152	405
PUBLCOMADS0	DMS100	DIGITAL LINES	480	405
BLTNMNSODS0	5E	DIGITAL LINES	1,728	406

PRVLOR53DS0	DMS10	DIGITAL LINES	3,359	415
SXFLSDCODS1	5E	DIGITAL LINES	1,824	415
WLMSAZMARS1	ORM	DIGITAL LINES	1,148	415
BDMDWA01RS1	RSM	DIGITAL LINES	1,145	420
GRNTNMMADS0	5E	DIGITAL LINES	1,152	421
MRSHMNMA53G	DMS100	DIGITAL LINES	576	432
PTLDOR12DS0	DMS100	DIGITAL LINES	12,384	432
LWLLOR53DS0	DMS10	DIGITAL LINES	541	434
JCVLOR56DS0	DMS10	DIGITAL LINES	2,716	446
WRTNOR64DS0	DMS10	DIGITAL LINES	1,056	462
ESTNNMMARS1	RSM	DIGITAL LINES	1,244	472
STARIDNMRS2	AXRSS	DIGITAL LINES	672	477
RCFDMN66DS0	5E	DIGITAL LINES	768	490
PYTNCOMARS1	RSM	DIGITAL LINES	2,016	492
FRBLMNFADS0	AXE	DIGITAL LINES	1,824	498
CHHLWA01DS0	DMS10	DIGITAL LINES	1,152	499
DESMWA01DS0	5E	DIGITAL LINES	2,520	501
STTLWAPADS0	5E	DIGITAL LINES	7,290	502
LAACNM01RS1	RSM	DIGITAL LINES	576	504
ISLKMNILRS1	RSM	DIGITAL LINES	1,151	521
TAOSNMNORS1	RSM	DIGITAL LINES	1,152	524
ASPECOMADS0	5E	DIGITAL LINES	1,152	527
NYSSORXCRS1	RSM	DIGITAL LINES	1,152	536
OLYMWAEVRS0	RSM	DIGITAL LINES	558	540
VALEORXCRS1	RSM	DIGITAL LINES	960	542
CHAPNMMARS1	RSM	DIGITAL LINES	867	545
STHROR58DS0	DMS100	DIGITAL LINES	5,957	546
LSALNMMADS0	5E	DIGITAL LINES	5,757	548
DESMIASODS0	5E	DIGITAL LINES	6,714	554
CRYSMNCRDS0	5E	DIGITAL LINES	1,152	555
KMBRIDMARS1	AXRSS	DIGITAL LINES	1,056	560
MRISWA01DS0	5E	DIGITAL LINES	4,122	568
MSLKWA01DS0	DMS100	DIGITAL LINES	4,320	581
CSRKWA01DS0	DMS10	DIGITAL LINES	2,709	583
FDWYWA01DS0	5E	DIGITAL LINES	3,648	585
BTLGWA01DS0	DMS10	DIGITAL LINES	2,172	590
MAYRAZMARS1	RSM	DIGITAL LINES	1,943	602
HPKNMNHODS0	5E	DIGITAL LINES	960	604
TLSNAZMARS1	RSM	DIGITAL LINES	1,372	605
NWPTOR35DS0	DMS10	DIGITAL LINES	2,176	630
BYLKWA01RS0	ORM	DIGITAL LINES	1,728	638
CTGVOR53DS0	DMS10	DIGITAL LINES	3,260	647
BLFTIDMADS0	AXE	DIGITAL LINES	1,152	668
DMNGNMMADS0	5E	DIGITAL LINES	1,726	669
STGRUTDXRS1	RSM	DIGITAL LINES	1,920	673
ABRDWA01DS0	DMS100	DIGITAL LINES	1,457	674
KENTWAOBDS0	5E	DIGITAL LINES	6,336	691
MSSLMTSORS1	ORM	DIGITAL LINES	1,440	693
VEYOUTMARS1	RSM	DIGITAL LINES	1,046	694
SCDLAZMADS0	5E	DIGITAL LINES	2,592	696
OMAKWA01DS0	DMS10	DIGITAL LINES	2,304	710
AZTCNM03RS1	RSM	DIGITAL LINES	1,152	719
BRVLMNBU89G	DMS100	DIGITAL LINES	2,112	732
RDWNMNRWDS0	DMS100	DIGITAL LINES	960	733
DESMIAAWDS0	5E	DIGITAL LINES	2,016	734
BLANMNBLSA	ORM	DIGITAL LINES	864	743
TCSNAZMADS1	5E	DIGITAL LINES	4,128	746
OGDNUTNODS0	DMS100	DIGITAL LINES	1,248	763
LAMSNMMARS1	RSM	DIGITAL LINES	1,152	769
OKGVMNOGRS7	RSM	DIGITAL LINES	1,440	778

DLTHMNME72G	5E	DIGITAL LINES	4,221	781
LSMNIDMARS1	AXRSS	DIGITAL LINES	1,056	783
BUTTMT09DS0	5E	DIGITAL LINES	1,728	796
NDLDCOMARS1	ORM	DIGITAL LINES	1,110	798
FCTWMTMARS1	RSM	DIGITAL LINES	1,728	802
ONTRORXCDS0	5E	DIGITAL LINES	1,152	803
HLNAMTNORS1	RSM	DIGITAL LINES	1,440	810
ANFRNMMARS1	RSM	DIGITAL LINES	2,286	818
BRCTMNBC56G	DMS100	DIGITAL LINES	864	825
DRPKWA01DS0	DMS10	DIGITAL LINES	1,338	825
MRTYNMMARS1	RSM	DIGITAL LINES	1,344	826
WTTWSDCODS0	5E	DIGITAL LINES	10,656	827
ASLDOR55DS0	DMS100	DIGITAL LINES	5,172	829
SHPHMTMARS1	RSM	DIGITAL LINES	1,152	838
WNTNOR57DS0	DMS10	DIGITAL LINES	2,703	840
AUSTMNAB43G	5E	DIGITAL LINES	1,248	844
DVNPIANWDS0	5E	DIGITAL LINES	10,080	861
KTCHIDMADS0	AXE	DIGITAL LINES	1,056	878
ENMCWA01RS0	RSM	DIGITAL LINES	2,304	887
RXBGIDMADS0	5E	DIGITAL LINES	2,688	891
ALBQNMNODS0	5E	DIGITAL LINES	7,474	902
SMNRWA01DS1	5E	DIGITAL LINES	2,304	903
BURLIATCDS0	5E	DIGITAL LINES	1,152	905
STPLMNMKRS0	ORM	DIGITAL LINES	2,016	910
DLTHMNLARS5	ORM	DIGITAL LINES	1,728	921
PHNXOR55DS0	DMS10	DIGITAL LINES	2,176	923
OMAHNEBEDS0	5E	DIGITAL LINES	1,920	926
AZTCNMBLRS1	RSM	DIGITAL LINES	1,937	938
SHVWMNRIDS0	5E	DIGITAL LINES	12,276	960
PHNXAZBWDS0	5E	DIGITAL LINES	1,632	971
CDCYUTMADS0	DMS100	DIGITAL LINES	2,400	972
ADAROR21DS0	DMS10	DIGITAL LINES	2,172	997
FTMDAZMADS0	5E	DIGITAL LINES	5,952	1,017
FRLKMNFLDS0	DMS100	DIGITAL LINES	1,536	1,042
LSVGNMMADS0	5E	DIGITAL LINES	1,717	1,044
SPDLWA01DS0	DMS10	DIGITAL LINES	1,248	1,061
ANKNIACODS0	DMS100	DIGITAL LINES	1,920	1,063
EHLNMTMARS1	RSM	DIGITAL LINES	2,112	1,064
VANCWA01DS0	5E	DIGITAL LINES	2,208	1,069
CSPRWYMADS0	5E	DIGITAL LINES	4,222	1,092
NBRNMNNBRS6	RSM	DIGITAL LINES	4,221	1,101
MLWKOR17DS0	5E	DIGITAL LINES	4,416	1,118
SPRFSDCORS1	RSM	DIGITAL LINES	4,635	1,127
TOOLUTMADS0	5E	DIGITAL LINES	2,688	1,127
CHVYAZMARS1	RSM	DIGITAL LINES	1,920	1,131
STTLWACADS0	5E	DIGITAL LINES	5,280	1,140
JNCYOR51DS0	DMS10	DIGITAL LINES	5,440	1,188
NRFDMNNODS0	DMS100	DIGITAL LINES	1,728	1,193
DLTHMNPLRS7	RSM	DIGITAL LINES	2,302	1,211
SLCYNMMADS0	5E	DIGITAL LINES	1,913	1,233
OWTNMNOW45G	5E	DIGITAL LINES	2,018	1,237
SFFRAZMADS0	DMS100	DIGITAL LINES	3,411	1,240
CLQTMNCARS8	RSM	DIGITAL LINES	2,976	1,265
ANTHNMMARSA	RSM	DIGITAL LINES	1,917	1,278
PTLDOR08DS0	5E	DIGITAL LINES	3,552	1,279
ENWDCOABDS0	5E	DIGITAL LINES	13,824	1,291
WINOMNWI45G	DMS100	DIGITAL LINES	2,112	1,297
NSPLMNPRDS0	5E	DIGITAL LINES	2,688	1,331
SEDNAZMADS0	5E	DIGITAL LINES	2,112	1,333
FRFLMNF73G	DMS100	DIGITAL LINES	4,765	1,371

MPLSMNDT62G	5E	DIGITAL LINES	6,907	1,386
BLGRMTMARS1	RSM	DIGITAL LINES	2,301	1,418
CLVLWA01DS0	DMS10	DIGITAL LINES	3,456	1,428
PCTLIDNODS0	AXE	DIGITAL LINES	2,016	1,430
YUMAAZMADS0	DMS100	DIGITAL LINES	3,903	1,467
BLDRCOGBRS1	ORM	DIGITAL LINES	3,648	1,475
RNTNWA01DS0	5E	DIGITAL LINES	5,856	1,503
AVONCOMADS0	DMS100	DIGITAL LINES	2,272	1,519
LOLOMTMARS1	RSM	DIGITAL LINES	2,688	1,565
FLRNOR53DS0	DMS10	DIGITAL LINES	3,295	1,567
WYZTMNWADS0	5E	DIGITAL LINES	4,608	1,583
NGLSAZMWDS0	5E	DIGITAL LINES	4,992	1,605
NWRVAZMARS1	RSM	DIGITAL LINES	14,687	1,616
BLFRWA01DS0	DMS10	DIGITAL LINES	3,839	1,633
OMAHNE84DS0	DMS100	DIGITAL LINES	4,416	1,634
DNVRCOEADS0	5E	DIGITAL LINES	33,792	1,678
WDPKCOMARS1	RSM	DIGITAL LINES	3,255	1,678
SEQMWA01DS0	DMS10	DIGITAL LINES	6,336	1,683
HRCNUTMARS1	RSM	DIGITAL LINES	6,139	1,684
SESDOR64DS0	DMS10	DIGITAL LINES	2,720	1,702
FRTNNMMADS0	5E	DIGITAL LINES	2,895	1,712
EUGNOR28DS0	DMS100	DIGITAL LINES	2,592	1,771
STPRMNSPDS0	DMS100	DIGITAL LINES	2,656	1,771
CSGRAZMADS0	DMS100	DIGITAL LINES	4,127	1,781
HALYIDMADS0	DMS10	DIGITAL LINES	4,224	1,787
WASHUTMARS1	RSM	DIGITAL LINES	5,375	1,791
TEMPAZMADS0	DMS100	DIGITAL LINES	5,371	1,795
GLVYMNORDS0	DMS100	DIGITAL LINES	2,304	1,813
FLGSAZEADS0	5E	DIGITAL LINES	4,608	1,828
PTLDOR02DS0	5E	DIGITAL LINES	4,607	1,900
LOGNUTMADS0	DMS100	DIGITAL LINES	2,879	1,910
SHKPMNSHRS1	ORM	DIGITAL LINES	3,360	1,933
YNTNSDCODS1	5E	DIGITAL LINES	2,688	1,933
EXCLMNEX47G	5E	DIGITAL LINES	7,520	1,968
GDFRNDBC77G	DMS100	DIGITAL LINES	3,616	1,969
SPKNWAFADS0	5E	DIGITAL LINES	9,792	2,027
EVRGCOMARS1	ORM	DIGITAL LINES	5,184	2,029
EKRVMNERDS0	DMS100	DIGITAL LINES	5,120	2,064
DTLKMNDLDS0	5E	DIGITAL LINES	2,875	2,069
HBCYUTMARS1	RSM	DIGITAL LINES	2,974	2,088
SEQMWA01DS1	DMS100	DIGITAL LINES	6,506	2,093
YAKMWAWEDS0	DMS100	DIGITAL LINES	11,519	2,150
SLDLWASIDS0	5E	DIGITAL LINES	5,191	2,167
WJRDUTMARS3	RSM	DIGITAL LINES	4,800	2,191
TACMWAGFDS0	5E	DIGITAL LINES	7,002	2,211
CHNDAZSODS0	5E	DIGITAL LINES	3,936	2,279
EAGNMNLB45G	DMS100	DIGITAL LINES	9,600	2,283
BLFSCOMARS1	RSM	DIGITAL LINES	5,238	2,350
ALMGNMMADS0	5E	DIGITAL LINES	4,800	2,363
LSCRNMTSDS0	5E	DIGITAL LINES	4,128	2,372
ALBQNMWEDS0	5E	DIGITAL LINES	4,629	2,376
TCSNAZTVDS0	5E	DIGITAL LINES	3,456	2,385
WLWLWA01DS0	DMS100	DIGITAL LINES	5,747	2,396
FLGSAZMADS0	5E	DIGITAL LINES	3,649	2,415
TAOSNMMADS0	5E	DIGITAL LINES	18,360	2,489
BITNCOMADS0	5E	DIGITAL LINES	16,124	2,560
TACMWAJUDS0	5E	DIGITAL LINES	7,488	2,583
KYVLUTMADS0	5E	DIGITAL LINES	4,321	2,595
LKOSOR62DS0	5E	DIGITAL LINES	7,392	2,634
CTWDAZMADS0	5E	DIGITAL LINES	3,635	2,676

TCSNAZCODS0	5E	DIGITAL LINES	4,992	2,723
STWRMNSTDS0	DMS100	DIGITAL LINES	3,264	2,761
BRNRMNBRDS0	DMS100	DIGITAL LINES	3,839	2,763
GRFLMTMADS0	5E	DIGITAL LINES	12,672	2,816
RPCYSDCODS1	5E	DIGITAL LINES	4,032	2,816
DVNPIAEADS0	5E	DIGITAL LINES	9,594	2,819
TCSNAZCADS0	DMS100	DIGITAL LINES	14,400	2,836
BSMRNBCDS0	DMS100	DIGITAL LINES	4,320	2,893
YUMAAZSEDS0	DMS100	DIGITAL LINES	9,734	2,903
LKWDCOMADS0	5E	DIGITAL LINES	15,360	3,032
IWCYIATCDS0	5E	DIGITAL LINES	18,414	3,047
PYSNAZMADS0	5E	DIGITAL LINES	5,337	3,060
EAGLIDNMRS1	RSM	DIGITAL LINES	6,528	3,068
BLNGMTWEDS0	5E	DIGITAL LINES	5,952	3,100
WSPLMNWSDS0	5E	DIGITAL LINES	4,608	3,213
SALMOR59DS0	5E	DIGITAL LINES	5,757	3,215
RVTNUTMADS0	5E	DIGITAL LINES	6,048	3,282
KENTWAMEDS0	5E	DIGITAL LINES	9,288	3,342
BMDJMNBE75G	DMS100	DIGITAL LINES	4,415	3,352
ROCHMNRDS0	5E	DIGITAL LINES	14,758	3,444
DNVRCOMBDS0	5E	DIGITAL LINES	9,988	3,499
SNFENMMADS0	5E	DIGITAL LINES	16,316	3,500
TACMWAFLDS0	5E	DIGITAL LINES	16,608	3,505
CVCKAZMADS0	5E	DIGITAL LINES	7,200	3,559
SNTSNMAARSA	RSM	DIGITAL LINES	6,126	3,609
SHTNWA01DS0	5E	DIGITAL LINES	8,625	3,623
BRNLNMMARSA	RSM	DIGITAL LINES	5,527	3,691
STTLWALADS0	5E	DIGITAL LINES	11,004	3,708
MESAAZMADS0	5E	DIGITAL LINES	23,232	3,835
WFRGNDBC28G	DMS100	DIGITAL LINES	5,440	3,864
CHYNWYMADS0	5E	DIGITAL LINES	8,736	3,947
PTLDOR11DS0	5E	DIGITAL LINES	13,440	3,958
EDPRMNGPDS0	5E	DIGITAL LINES	6,720	4,022
STGRUTMADS0	5E	DIGITAL LINES	7,198	4,036
SPRSAZEADS0	DMS100	DIGITAL LINES	6,720	4,088
VANCWANODS0	5E	DIGITAL LINES	7,868	4,138
WBLKMNWBDS0	5E	DIGITAL LINES	4,992	4,161
FARGNDBC23G	5E	DIGITAL LINES	5,184	4,170
SNFENM58RS1	RSM	DIGITAL LINES	8,044	4,171
LTPKAZMARS1	RSM	DIGITAL LINES	7,104	4,179
MNMTCOMADS0	5E	DIGITAL LINES	7,102	4,194
AURRCOMADS0	5E	DIGITAL LINES	20,728	4,279
ANOKMNANDS0	5E	DIGITAL LINES	6,912	4,503
EDPRMNEP94G	5E	DIGITAL LINES	7,680	4,512
AUBNWA01DS0	5E	DIGITAL LINES	10,656	4,568
SPKNWAWHDS0	5E	DIGITAL LINES	9,784	4,821
GNVYAZMADS0	DMS100	DIGITAL LINES	19,041	4,864
PHNXAZGRDS0	5E	DIGITAL LINES	17,184	4,910
KENTWA01DS0	5E	DIGITAL LINES	10,014	4,921
PRSCAZEARS2	RSM	DIGITAL LINES	7,283	4,930
MPWDMNMADS0	5E	DIGITAL LINES	17,786	4,942
DNVRCOCPDS0	5E	DIGITAL LINES	10,943	5,099
HLNAMTMADS0	5E	DIGITAL LINES	9,024	5,178
ALBQNMRRDS0	DMS100	DIGITAL LINES	16,224	5,209
LSCRNM16RS1	RSM	DIGITAL LINES	8,433	5,255
CNRPMNNDDS0	5E	DIGITAL LINES	7,674	5,271
LSCRNMADS0	5E	DIGITAL LINES	9,953	5,417
GRELCOMADS0	5E	DIGITAL LINES	9,292	5,423
TCSNAZSWDS0	DMS100	DIGITAL LINES	15,675	5,485
SNFENMSWDS0	5E	DIGITAL LINES	8,064	5,625

BOISIDMADS3	5E	DIGITAL LINES	18,542	5,636	
DNVRCODCDS0	5E	DIGITAL LINES	19,200	5,665	
RDMDOR01DS0	DMS100	DIGITAL LINES	15,006	5,770	
MRDNIDMADS0	5E	DIGITAL LINES	18,816	5,774	
EUGNOR53DS1	5E	DIGITAL LINES	12,821	5,854	
PRCYUTMADS0	5E	DIGITAL LINES	9,213	5,999	
BENDOR24DS0	DMS100	DIGITAL LINES	12,735	6,021	
ISQHWAEXDS0	5E	DIGITAL LINES	15,660	6,165	
ALBQNMNEDS0	5E	DIGITAL LINES	10,944	6,258	
CLSPCOMADS0	5E	DIGITAL LINES	16,800	6,280	
TJRSNMMARSA	RSM	DIGITAL LINES	9,390	6,322	
PRSCAZMADS0	5E	DIGITAL LINES	13,202	6,369	
ALBQNMCRDS0	DMS100	DIGITAL LINES	9,504	6,640	
GRHMWAGRDS0	5E	DIGITAL LINES	14,292	6,806	
BZMNM TMADS0	5E	DIGITAL LINES	10,343	6,953	
TACMWAWVDS0	5E	DIGITAL LINES	12,863	7,155	
BRDSAZMADS0	5E	DIGITAL LINES	11,550	7,868	
CSRKCONMDS0	5E	DIGITAL LINES	21,417	8,124	
STCDMNTO25G	DMS100	DIGITAL LINES	14,192	8,197	
FTCLCOHMDS0	5E	DIGITAL LINES	29,785	8,518	
LVLDCOMADS0	5E	DIGITAL LINES	27,457	8,661	
DRPRUTMADS0	5E	DIGITAL LINES	20,064	8,738	
DNVRCOCWDS0	5E	DIGITAL LINES	15,642	8,759	
SALMOR58DS0	5E	DIGITAL LINES	17,862	8,843	
SCDLAZTHDS0	5E	DIGITAL LINES	18,897	9,081	
BLNGMTMADS1	5E	DIGITAL LINES	23,853	9,281	
MSSLMTMADS0	5E	DIGITAL LINES	18,528	9,488	
DNVRCOSLDS0	5E	DIGITAL LINES	23,136	9,569	
WMNSCOMADS0	5E	DIGITAL LINES	46,385	9,785	
OLYMWA02DS0	5E	DIGITAL LINES	21,827	10,168	
CLSPCOEADS0	5E	DIGITAL LINES	24,289	10,175	
PRKRCOMARS1	ORM	DIGITAL LINES	19,419	10,226	
LTTNCOHLDS0	DMS100	DIGITAL LINES	19,675	10,355	
LACYWA01DS0	5E	DIGITAL LINES	26,160	10,367	
BLDRCOMADS0	5E	DIGITAL LINES	70,985	11,843	
DRVYAZNODS0	5E	DIGITAL LINES	27,740	12,452	
CHNDAZWEDS0	5E	DIGITAL LINES	21,021	14,232	
CLSPCOPVDS0	5E	DIGITAL LINES	23,808	15,507	
AGFIAZSRDS0	5E	DIGITAL LINES	21,534	15,831	
BLHMWA01DS0	5E	DIGITAL LINES	31,184	16,397	
OMAHNEHADS0	5E	DIGITAL LINES	48,864	18,228	
CHNDAZMADS0	5E	DIGITAL LINES	40,712	18,503	
PHNXAZCADS0	5E	DIGITAL LINES	34,173	19,983	
SCDLAZSHDS0	5E	DIGITAL LINES	35,326	20,426	
OMAHNECEDS0	5E	DIGITAL LINES	64,623	21,560	
PRVYAZPPDS0	5E	DIGITAL LINES	48,688	22,273	
OMAHNEFODS0	5E	DIGITAL LINES	90,065	23,600	
MESAAZGIDS0	5E	DIGITAL LINES	39,552	23,700	
		DIGITAL LINES			
		Total	2,629,378	994,585	0.38

Data Measurement Content and Data Collection Methodology for Trunk Usage Studies

This document provides the data collection methodology and data content for U S WEST's "CCS-per-Trunk" studies. Below are some general descriptions. If you need additional detail, two references are available for this purpose. They are: SR-TAP-000191 "Trunk Traffic Engineering Concepts and Applications" (Bellcore – Issue 2, December 1989), and BR 756-350-522 "Trunk Servicing System – User Guide" (Bellcore – Issue 3, Revision 9, November, 1997).

Data Collection

Traffic Data is collected on an hourly basis via software traffic registers which are part of U S WEST switch point of each message trunk group. This hourly data consists of:

- Usage – Measured in CCS (Hundred Call Seconds), a statistically valid sample of the total time trunks are held in conversation on all calls, originating and terminating. Each trunk group is sampled every 100 seconds, and the total number of trunks within the group which are found busy is recorded. This data is then accumulated at an hourly level. Thus, each circuit within a trunk group would generate 36 CCS of Usage if it was busy continuously within a given collection hour. Usage data is the only traffic data included in the "CCS-per-Trunk" studies.
- Peg Count – The total attempts to originate a call from the U S WEST end of the trunk group.
- Overflow – The total number of Peg Counts which were unsuccessful due to an insufficient number of trunks in the group. This may represent blocked calls or calls routed another way.

This traffic data is accumulated and transmitted on a weekly basis to the TNDS/TK – TSS (Total Network Data Systems, Trunking – Trunk Servicing System) where it is validated, aggregated, and converted to trunk requirements.

Data Validation and Analysis

The Trunk Servicing System (TSS) first compares the traffic data file to the Trunk Record Database (TRDB) to assure that all traffic data records can be associated with a working trunk group. TSS then uses the number of working circuits, the trunk group routing type, and load conversion parameters to validate the data for reasonableness. Invalid or suspect data is then flagged and eliminated from further analysis. Only traffic data which has passed TSS validations is used in providing the "CCS-per-Trunk" studies. Data calculations are performed downstream which include the percent of blocked (or re-routed) calls, the average call holding time, and the offered load (in CCS).

Data accumulated for the "CCS-per-Trunk" studies consists of a 1 business week time period.

Reasonableness and meaning of CCS-per-Trunk Data

The CCS-per-Trunk capacity of any member of a trunk group is dependent upon two factors. These are: the number of trunks within the group, and the group's routing configuration. In general, larger trunk groups can carry more CCS than smaller ones. Trunk groups which re-route traffic to another group (called Primary High-Usage (PH)) when busy can also carry more CCS per trunk than those which block calls (called Direct Final (DF) or Alternate Final (AF)) when they are busy.

Although there are notable exceptions, direct trunk groups between two End Office switches generally re-route traffic when they are busy. The tandem trunk groups to which they overflow traffic generally block calls when they are busy. This means that in general, direct trunk groups can be expected to carry more CCS per trunk than Tandem trunk groups.

While a trunk can technically carry up to 36 CCS per hour if they are busy continuously within that hour, this is generally never true in practice. A trunk group which was carrying a load of 36 CCS

per trunk would either be blocking large numbers of calls or re-routing an excessive amount of traffic to its alternate route group, and would in either case be in urgent need of augment.

The following table summarizes for all of U S WEST the CCS/Trunk and percent of trunks by category (i.e., End Office to End Office, End Office to Local Tandem, End Office to Access Tandem). For weightings, the EO-LT trunks are halved because 2 trunks are required for one end to end call.

Services	Trunk Type	CCS	Weightings
Shared	EO-EO	20.61	54.46%
Shared	EO-LT	20.43	8.62%
Shared	EO-AT	14.44	36.92%
Switched	All	18.32	100.00%